

# CURRICULUM VITAE 1-1-2026

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| <b>Name:</b> GEORGE ANGELOS ANASTASSIOU | <b>Department:</b> MATHEMATICAL SCIENCES |
|-----------------------------------------|------------------------------------------|

## EDUCATION

| DEGREES | DISCIPLINE  | INSTITUTION             | YEAR |
|---------|-------------|-------------------------|------|
| Ph. D.  | Mathematics | University of Rochester | 1984 |

## EXPERIENCE

| RANK/<br>POSITION             | DEPARTMENT/<br>DIVISION                                        | INSTITUTION/COMPANY/<br>ORGANIZATION | PERIOD           |
|-------------------------------|----------------------------------------------------------------|--------------------------------------|------------------|
| Full Professor                | Mathematical Sciences                                          | University of Memphis                | 1994-<br>Present |
| Associate Professor           | Mathematical Sciences                                          | Memphis State University             | 1989-<br>1994    |
| Assistant Professor           | Mathematical Sciences                                          | Memphis State University             | 1986-<br>1989    |
| Visiting Assistant Professor  | Assistant to the Editor of the Journal of Approximation Theory | University of Rhode Island           | 1984-<br>1986    |
| Teaching Assistant            | Mathematics                                                    | University of Rochester              | Summer,<br>1983  |
| Teaching Assistant and Fellow | Mathematics                                                    | University of Rochester              | 1979-<br>1984    |
| EMERITUS PROFESSOR            | MATHEMATICS                                                    | UNIVERSITY OF MEMPHIS                | 2024-            |

## HONORS/AWARDS

| HONOR/AWARD                                                                                                                          | INSTITUTION/COMPANY/<br>ORGANIZATION                | YEAR                    |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|
| 1)Distinguished Research Award                                                                                                       | University of Memphis Alumni Association            | 1999                    |
| 2)Distinguished Research Award                                                                                                       | University of Memphis, College of Arts and Sciences | 1999                    |
| 3)Outstanding Young Researcher                                                                                                       | University of Memphis,College of Arts and Sciences  | 1990                    |
| 4)A.Pallas award 12-27-01,Best paper in Mathematical Analysis for 1998-2000                                                          | Academy of Athens,Greece                            | 2001                    |
| 5) \$500 Award from CIPS to lecture in U.Rome,Italy                                                                                  | U.Memphis                                           | Summer 2002             |
| 6) HONORARY DOCTORAL DEGREE                                                                                                          | UNIVERSITY OF ORADEA,ROMANIA                        | 2007<br>(5-25-07)       |
| 7)Distinguished Research Award                                                                                                       | University of Memphis Alumni Association            | 2008                    |
| You may visit also:<br><a href="http://en.wikipedia.org/wiki/George_Anastassiou">http://en.wikipedia.org/wiki/George_Anastassiou</a> |                                                     |                         |
| AUTHOR RECOGNITION 2012 ON 2-26-2013.ALSO IN 2014, 2015, 2016, 2017-2020-2023, 2024.                                                 | UNIVERSITY OF MEMPHIS                               | 2012-<br>2013,<br>2014, |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2015,<br>2016,<br>2017,<br>2018-<br>2020-<br>2023 |
| PDA 1993, 2000, 2008, 2016.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |
| RIESZ AWARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1ST ONLINE INTERNATIONAL CONF. FRACTIONAL CALC. 325 YRS, ISTANBUL                                                                                                                                                                                                                                                                                                                                                                                                                         | 12-4-2020                                         |
| LIFETIME ACHIEVEMENT AWARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ICMMAAC-21, JAIPUR MATH. SOC., INDIA                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8-7-2021                                          |
| HONORING G. ANASTASSIOU 69TH BIRTHDAY,<br><br>G. ANASTASSIOU ON THE TOP 2% IN RESEARCHGATE.NET:<br><br><a href="https://www.researchgate.net/profile/George-Anastassiou/stats">https://www.researchgate.net/profile/George-Anastassiou/stats</a><br><br>G. ANASTASSIOU ON THE WORLD'S TOP 2%:<br><a href="https://www.memphis.edu/mediaroom/releases/2023/december/uofm-research-top-2-percent-stanford-elsevier.php">https://www.memphis.edu/mediaroom/releases/2023/december/uofm-research-top-2-percent-stanford-elsevier.php</a> | ICMMAAC-21, INDIA,<br><br><b>Well done, George!</b><br><br><b>With 162 new reads, your research items were the most read research items from your department last week</b><br>Achieved on November 17, 2024<br><br><a href="https://www.researchgate.net/profile/George-Anastassiou/achievement/673b162069976e3d9f419979">https://www.researchgate.net/profile/George-Anastassiou/achievement/673b162069976e3d9f419979</a><br><br>THIS HAPPENING EVERY WEEK FOR THE LAST MANY MANY YEARS! | AUGUST 5-7, 2021                                  |

## TEACHING EXPERIENCE

| SUBJECT                                                  | INSTITUTION                            |
|----------------------------------------------------------|----------------------------------------|
| Many Undergraduate Math Courses                          | University of Rochester, 1979-1984     |
| Many Undergraduate Math Courses                          | University of Rhode Island, 1984-1986  |
| Great Variety of Undergraduate and Graduate Math Courses | University of Memphis, 1986 to Present |

## STUDENT ADVISING/MENTORING

| CURRENT DEGREE                         | NAME                                             | YEAR OF GRADUATION |
|----------------------------------------|--------------------------------------------------|--------------------|
| Undergraduate usually 120 per semester | ....                                             | ....               |
| Masters                                | Scott Richardson's MSc thesis Committee          | Dec 2007           |
| Doctoral                               | Zhou, Mi                                         | 1997               |
| Postdoctoral                           |                                                  |                    |
| Ph.D                                   | For C.Gal,I am a member of his defense committee | 2006               |
| Ph.D / Thesis Advisor                  | Razvan Mezei                                     | 2011               |
| MASTERS 2013 -PH.D 2016                | MERVE KESTER                                     | 2016               |
| Ph.D/ Thesis advisor                   | Merve Kester                                     | 2016               |
| Ph.D dissertation committee/defense    | Yuri Sokolov                                     | 2016               |

|                                           |                |      |
|-------------------------------------------|----------------|------|
| Ph.D dissertation committee/defense       | Aaron Taylor   | 2016 |
| Ph.D dissertation committee/defense       | Hyung-Joon Tag | 2017 |
| MASTER'S DEFENSE COMMITTEE<br>TWICE, 2021 |                |      |
| MASTER TWICE IN 2022                      |                |      |
| MASTER TWICE IN 2023, 2024                |                |      |

## CREATIVE ACTIVITIES

| ACTIVITY              | DATES     | LOCATION              | SPONSORSHIP |
|-----------------------|-----------|-----------------------|-------------|
| Research and Lectures | 1986-2024 | University of Memphis |             |

## Books Published

### Books (authored, edited)

1. Research monograph "Moments in Probability and Approximation Theory" Pitman, England 1993, (419 pages).
2. Edited with ST Rachev: "Applied Analysis and Stochastics" a special section of "Journal of Computational and Applied Mathematics," Vol. 40, No. 2, June 1992.
3. March 14-16, 1991. I was the editor of the Proceedings of this conference, published by Marcel-Dekker, Inc., 1992. ("Approximation Theory," Vol. 138, Lecture Notes in Pure and Applied Math.)
4. During May 20-22, 1993, with ST Rachev (U.C.S.B.), I was the organizer of the 1st International Conference on "Approximation, Probability and Related Fields" held in Santa Barbara, CA. The volume of proceedings, edited by G. Anastassiou and ST Rachev from the above conference was published by "Plenum" in 1994.
5. Guest Editor in "Computers and Math. with Appl.", special issue on "Concrete Analysis," Vol. 30, No 3-6, Sept 1995.
6. Guest Editor in "Computers and Math. with Appl.", special issue "Proceedings of #919 Memphis AMS Approximation Meeting," 1997; Vol. 40, No. 1, July 2000; "Approximation in Mathematics".
7. Research Monograph with S. Gal, "Approximation Theory: Moduli Continuity and Global Smoothness Preservation", Birkhauser-Boston, 2000, pp. 525.
8. "Quantitative Approximations", CRC Press 2000, pp. 617.
9. "Handbook of Analytic Computational methods in Applied Math.", CRC press, 2000, pp. 1034.
10. "Applied Math Rev., Vol. 1", World Scientific Publishing Co. 2000, pp. 611.
11. "Guest Editor in journal of "Computers and Mathematics with Appl.", special issue on "Computational Methods in Analysis", Vol.48, No.9, November 2004.
12. RESEARCH MONOGRAPH , 693 PAGES, ACCEPTED FOR PUBLICATION BY SPRINGER AND WORLD SCIENTIFIC PUBLISHING CORP.

TITLE: "FRACTIONAL DIFFERENTIATION INEQUALITIES", PUBLISHED BY

SPRINGER, NY, HEIDELBERG, 2009.

13. RESEARCH MONOGRAPH, "PROBABILISTIC INEQUALITIES", 430 PAGES, WORLD SCIENTIFIC PUBLISHING CORPORATION, 2010.

14. RESEARCH MONOGRAPH, "FUZZY MATHEMATICS: APPROXIMATION THEORY",  
455 PAGES, SPRINGER, NY, HEIDELBERG, 2010.

15. RESEARCH MONOGRAPH, "ADVANCED INEQUALITIES", 418 PAGES, WORLD SCIENTIFIC PUBLISHING CORPORATION, SINGAPORE, NEW YORK, 2010.

16. RESEARCH MONOGRAPH, "INTELLIGENT MATHEMATICS: COMPUTATIONAL ANALYSIS", 814 PAGES, SPRINGER, HEIDELBERG, NEW YORK, 2011.

17. GEORGE ANASTASSIOU AND OKTAY DUMAN: "TOWARDS INTELLIGENT MODELING: STATISTICAL APPROXIMATION THEORY", SPRINGER HEIDELBERG, 2011.

18. "INTELLIGENT SYSTEMS: APPROXIMATION BY ARTIFICIAL NEURAL NETWORKS", SPRINGER HEIDELBERG, 2011.

19. "INEQUALITIES BASED ON SOBOLEV REPRESENTATIONS", SPRINGER NY, 2011.

20. "APPROXIMATION BY MULTIVARIATE SINGULAR INTEGRALS", SPRINGER NY, 2011.

21. "ADVANCES ON FRACTIONAL INEQUALITIES", SPRINGER NY, 2011.

22. "TOPICS IN COMPLEX APPROXIMATION", CAMBRIDGE SCIENTIFIC PUBLISHERS, CAMBRIDGE, UK, 2013.

23. G. ANASTASSIOU AND R. MEZEI, "APPROXIMATION BY SINGULAR INTEGRALS", CAMBRIDGE SCIENTIFIC PUBLISHERS, CAMBRIDGE, UK, 2012.

24. GEORGE ANASTASSIOU AND IULIANA IATAN, " INTELLIGENT ROUTINES: SOLVING MATHEMATICAL ANALYSIS WITH MATLAB, MATHCAD, MATHEMATICA AND MAPLE", vol. 39, INTELLIGENT SYSTEMS REFERENCE LIBRARY, SPRINGER, NY, HEIDELBERG, 2013.

25. G. ANASTASSIOU AND O. DUMAN, " ADVANCES IN APPLIED MATHEMATICS AND APPROXIMATION THEORY: CONTRIBUTIONS FROM AMAT 2012, PROCEEDINGS", EDITED VOLUME, SPRINGER, NEW YORK, 2013.

26. G. ANASTASSIOU AND I. IATAN, INTELLIGENT ROUTINES II: SOLVING LINEAR ALGEBRA AND DIFFERENTIAL GEOMETRY WITH SAGE, SPRINGER, 2014.

27. G. ANASTASSIOU AND O. DUMAN, "INTELLIGENT MATHEMATICS II: APPLIED MATHEMATICS AND APPROXIMATION THEORY-CONTRIBUTIONS FROM AMAT 2015", SPRINGER HEIDELBERG, NY, 2016.

28. G. ANASTASSIOU AND O. DUMAN, "COMPUTATIONAL ANALYSIS-CONTRIBUTIONS FROM AMAT 2015", SPRINGER-NY, 2016.
29. G. Anastassiou and R. Mezei (former Ph. D student of Anastassiou): "Numerical Analysis Using Sage", Springer, NY, 2015 (textbook, 314 pages).
30. G. Anastassiou: "Frontiers in Approximation Theory", World Scientific Publishing Corporation, Singapore, NJ, 2015 (228 pages).
31. G. Anastassiou: "Frontiers in Time Scales and Inequalities", World Scientific Publishing Corporation, Singapore, NJ, 2016 (278 pages).
32. G. Anastassiou: "Intelligent Comparisons: Analytic Inequalities", Springer, Heidelberg, NY, 2016 (662 pages).
33. G. Anastassiou: "Intelligent Systems II: Complete Approximation by Neural Network Operators", Springer, Heidelberg, NY, 2016 (714 pages).
34. G. Anastassiou, I. Argyros, "Intelligent Numerical Methods: Applications to Fractional Calculus", Springer, NY, Heidelberg, 2016 (423 pages).
35. G. Anastassiou, I. Argyros, "Intelligent Numerical Methods II: Applications to Multivariate Fractional Calculus", Springer, NY, Heidelberg (131 pages), 2016.
36. G. Anastassiou, M. Kester, "Discrete Approximation Theory", World Scientific Publ. Co., 2017.
37. "Intelligent Comparisons II: Operator Inequalities and Approximations", Springer, Heidelberg, NY, 2017.
38. G. Anastassiou, "Intelligent Computations: Abstract Fractional Calculus, Inequalities, Approximations", Springer, Heidelberg, New York, 2018.
39. G. Anastassiou, I. Argyros, "Functional Numerical Methods: Applications to Abstract Fractional Calculus", Springer, Heidelberg, New York, 2018.
40. G. Anastassiou, "Nonlinearity: Ordinary and Fractional Approximations by Sublinear and Max-product Operators", Springer, Heidelberg, New York, 2018.
41. George Anastassiou, "Ordinary and Fractional approximation by non-additive integrals: Choquet, Shilkret and Sugeno integral approximators", Springer, Heidelberg, New York, 2019.
42. G. Anastassiou, J. Rassias, "Frontiers in Functional Equations and Analytic Inequalities", 747 pages edited volume, Springer, New York, 2019.
43. George Anastassiou, "Intelligent Analysis: Fractional Inequalities and Approximations Expanded", Springer, Heidelberg, New York, 2020,
44. George Anastassiou, "Generalized Fractional Calculus: New Advancements and Applications", Springer, Heidelberg, New York, 2021.
45. GEORGE ANASTASSIOU, "CONSTRUCTIVE FRACTIONAL ANALYSIS WITH APPLICATIONS", SPRINGER, HEIDELBERG, NY, 2021.

46. GEORGE ANASTASSIOU, "UNIFICATION OF FRACTIONAL CALCULI WITH APPLICATIONS", SSDC 398, SPRINGER, HEIDELBERG, NEW YORK, 2022.
47. GEORGE ANASTASSIOU, "ABSTRACT FRACTIONAL MONOTONE APPROXIMATION", SPRINGER, HEIDELBERG, NY, 2022.
- 48) George A. Anastassiou, "Fractional Inequalities in Banach Algebras: Theory and Applications", 297 p., Springer, Heidelberg, NY, 2022.
- 49) George A. Anastassiou, "Banach space valued neural network", 402 p., Springer, Heidelberg, NY, 2023.
- 50) Jagdev Singh, G.A. Anastassiou, D. Baleanu, C. Cattani, "Advances in Mathematical Modelling, Applied Analysis, and Computation", Proceedings of ICMMAAC 2021, Springer, Heidelberg, New York, 2023.
- 51) >>>>> ICMMAAC2022, SPRINGER, NEW YORK, 2023.
- 52) G.A. ANASTASSIOU, "PARAMETRIZED, DEFORMED AND GENERAL NEURAL NETWORKS", 817 PAGES, SPRINGER, HEIDELBERG, NEW YORK, 2023.
- 53) G.A. ANASTASSIOU, RAZVAN A. MEZEI, "NEURAL NETWORK APPROXIMATION IN NUMBERS", 997 PAGES,  
[https://editura.uoradea.ro/carti/2024\\_neural\\_network\\_approximations\\_in\\_numbers\\_entire\\_version](https://editura.uoradea.ro/carti/2024_neural_network_approximations_in_numbers_entire_version)
- 54) G.A. ANASTASSIOU, "TRIGONOMETRIC AND HYPERBOLIC GENERATED APPROXIMATION THEORY", WORLD SCIENTIFIC PUBLISHING CORPORATION, SINGAPORE, LONDON, NEW YORK, 2025.
- 55-56) G. ANASTASSIOU, J. SINGH ET AL, "ADVANCES IN MATH. MODELLING, APPLIED ANALYSIS AND COMPUTATION", PROCEEDINGS OF ICMMAAC 2023-VOLUMES 1-2, SPRINGER, HEIDELBERG, NEW YORK, 2024.
- 57) G. ANASTASSIOU, "AI MATHEMATICS: ADVANCED NEURAL NETWORK APPROXIMATION", SPRINGER, HEIDELBERG, NEW YORK, IN PRESS, 2025.
- 58, 59) G. ANASTASSIOU, J. SINGH ET AL, "ADVANCES IN MATH. MODELLING, APPLIED ANALYSIS AND COMPUTATION", PROCEEDINGS OF ICMMAAC 2024-VOLUMES 1-2, SPRINGER, HEIDELBERG, NEW YORK, 2025.
- 60) G. ANASTASSIOU, "NEURAL NETWORKS AS POSITIVE LINEAR OPERATORS", WSPC, SINGAPORE, LONDON, NEW YORK, IN PRESS, 2025.

## Book Reviews

Many

RESEARCH PROPOSALS REVIEWER.

Many

## **Refereed Journal Publications**

1. "A study of positive linear operators by the method of moments", Ph. D. thesis, The University of Rochester, (1984), Rochester NY.
2. "An improved general stochastic inequality", Bulletin of the Greek Mathematical Society, Vol. 24, 1983, pp. 1-11.
3. "A K-attainable inequality related to the convergence of positive linear operators:", Journal of Approximation Theory, vol. 44, No. 4, August 1985, pp. 380-383.
4. "Miscellaneous sharp inequalities and Korovkin type convergence theorems involving sequences of probability measures", Journal of Approximation Theory, Vol. 44, No. 4, August, 1985, pp. 384-390.
5. With O. Shisha, "Monotone Approximation with Linear Differential Operators", Journal of Approximation Theory, Vol. 44, No. 4, August, 1985, pp. 391-393.
6. "A study of positive linear operators by the method of moments, one dimensional case", Journal of Approximation Theory, Vol. 45, No. 3, Nov. 1985, pp. 247-270.
7. "A discrete Korovkin Theorem", Journal of Approximation Theory, Vol. 45, No. 4, Dec., 1985, pp. 383-388.
8. "On a discrete Korovkin Theorem", Journal of Approximation Theory, 61, pp. 384-386 (1990), correction.
9. "Multi-dimensional quantitative results for probability measures approximating the unit measure", Journal of Approximation Theory and Appl., Vol. 2, No. 4, pp. 93-103.
10. "Korovkin inequalities in real normed vector spaces", 1986, pp. 235-238, Proceedings "Approx. TH. V", Academic Press (Refereed).
11. "Korovkin type inequalities in real normed vector spaces", Journal of Approximation Theory and Appl., Vol. 2, No. 2, 1986, pp. 39-53.
12. "The Levy radius of a set of probability measures satisfying basic moment conditions involvint  $\{t, t\}$ ", Constructive Approximation Journal (1987) 3: pp. 257-263.
13. "A comparison of Prohorov and Lipschitz metrics" Bulletin of Greek Math. Soc., Vol. 28, 1987 A, pp. 1-5.
14. "On the degree of weak convergence of a sequence of finite measures to the unit measure under convexity" J. Approx. Th., Vol. 51, No. 4, Dec. 1987, pp. 333-349.
15. "The Levy radius of a set of probability measures satisfying moment conditions involving a Tchebycheff system of functions" J. Approx. Th. and Appl., Vol. 3, No. 2-3 Aug. 1987, pp. 50-65.

16. "The Rate of Weak convergence of convex type positive finite measures", J. Math. Anal. and Appl., Vol. 136, No. 1, 1988, pp. 229-248.
17. "Smooth rate of weak convergence of convex type positive finite measures", J. Math. Anal. and Appl., 141, pp. 491-508, 1989.
18. "Rate of convergence of non-positive linear convolution type operators. A sharp inequality", J. Math. Anal. and Appl., 142, pp. 441-451, 1989.
19. "Sharp inequalities for convolution type operators", Journal Approximation Theory, 58, pp. 259-266, 1989.
20. "Rate of convergence of positive linear operators through an Extended complete Tchebycheff system," Journal Approximation Theory, 59, pp.125-149, 1989.
21. With ST Rachev. "Approximation of a random Queue by Means of Deterministic Queueing models", "Approximation Theory VI", Vol. I (1989), pp. 9-11, Academic Press (refereed).
22. "Weak convergence and the Prokhorov Radius for Probability measures", Approx. Opt. & Comp.: Th. & Appl., AG Law & CL Wang (eds). North Holland, pp. 47-48, 1990.
23. "Spline monotone approximation with linear differential operators", J. Approx. Th. and Appl., 5, pp. 61-67, 1989.
24. With SA Ali and O Shisha "Discrete Best L-1, Approximation in the Gauges Sense, "Numerical Functional Analysis and Optim., 11 (5 & 6), pp. 411-417 (1990).
25. "Monotone Approximation by Pseudopolynomials", Approx. Theory, pp. 5-11, Academic Press, New York, Boston, (1991).
26. "A Discrete Stochastic Korovkin Theorem", Int. J. Math. & Math. Sci., Vol. 14, No. 4, pp. 679-682 (1991).
27. "Korovkin inequalities for stochastic processes", J. Math. Anal. & Appl., Vol. 157, No. 2, pp. 366-384 (1991).
28. With C. Cottin and H. Gonska "Global smoothness of approx. functions", "Analysis", Vol. 11, pp. 43-57, (1991).
29. "Bivariate monotone approximation," "Proc. A.M.S.", Vol. 112, No. 4, pp. 959-964, (1991).
30. With C. Cottin and H. Gonska "Global Smoothness preservation by multivariate Approximation operators", "Israel Mathematical Conference Proc.", Weizmann Science Press, Vol. 4, 1991, pp. 31-44.
31. "Weak Convergence and the Prokhorov Radius", "J. Math. Anal. & Appl.", Vol 163, No. 2, pp. 541-558, (1992).
32. With ST Rachev. "Moment problems and their applications to characterization of stochastic processes, queueing theory and rounding problems". Proceedings 6th S.E.A. meeting "Approximation Theory," pp. 1-77, Marcel Dekker, Inc., New York, 1992.
33. With XM Yu. "Bivariate Probabilistic Wavelet Approximation" Proc. 6th S.E.A. Meeting, "Approximation Theory," pp. 79-92, Marcel Dekker, Inc., New York, 1992.
34. With XM Yu. "Probabilistic Discrete Wavelet Approx.", "Num. Func. Anal. & Opt.", Vol. 13, pp. 117-121, 1992.



35. With ST Rachev. "How precise is the approximation of a random queue by means of deterministic queueing models", *Computers & Math. with Appl.*, Vol. 24, No. 8/9, pp. 229-246, 1992.
36. With XM Yu, "Monotone and Probabilistic Wavelet Approximation", *"Stoch. Anal. & Appl."*, Vol. 10, No. 3, pp. 251-264, 1992.
37. With XM Yu. "Convex and Coconvex - Probabilistic Wavelet Approximation," *"Stoch. Anal. & Appl."*, Vol. 10, No. 5, pp. 507-521, 1992.
38. With SM Yu. "Multivariate Prob. Approx. in Wavelet Structure," *Approx. Th. & Appl.*, Vol. 8, No. 4, pp. 17-27, 1992.
39. "A generalized K-attainable inequality related to the weak convergence of probability measures," *Rev. Academia d Ciencias Zaragoza* 47, pp. 103-120, 1992.
40. "Higher order monotone approximation with linear differential operators," *"Indian Journal of Pure and Applied Math"*, 24(4), pp. 263-266, 1993.
41. With XM Yu and ST Rachev. "Multivariate Probabilistic Wavelet Approx.", *Proc. Int. Conf. on "Approx., Prob. and Related Fields"*, U.C.S.B., Santa Barbara, CA, May 20-22, 1993, Plenum, Edited by G. Anastassiou, ST Rachev, pp. 65-74, 1994.
42. With H. Gonska, "On some shift-invariant integral operators, multivariate case", *Proc. Int. Conf. on "Approx. Prob. and Related Fields"*, U.C.S.B., Santa Barbara, CA, May 20-22, 1993, Plenum, edited by G. Anastassiou and ST Rachev, pp. 41- 64, 1994.
43. "Lp-Korovkin type inequalities for positive linear operators," *"Approx. Prob. and Related Fields"*, edited by G. Anastassiou, ST Rachev, Plenum, *Proc. U.C.S.B. Conference*, May 20-22, 1993, pp. 19-40, 1994.
44. With XM Yu. "Bivariate Constrained Wavelet Approximation," *"J.Comp. and Appl. Math."*, 53 (1994), 1-9.
45. "Central limit theorem, weak law of large numbers for martingales in Banach spaces and weak invariance principle a quantitative study," *"Journal of Multivariate Analysis"*, 52, pp.158-180 (1995).
46. With H. Gonska, "On some shift-invariant integral operators, univariate case," *"Annales Polonici Mathematici"*, pp. 225- 243, LXI. 3, 1995.
47. "Comparison Theorems on Moduli of Continuity," in a special issue on "Concrete Analysis" within *"J. Computers, Math. and Appls."*, pp. 15-21, Vol. 30, No. 3-6, 1995.
48. With M. Zhou "On some Saturation Properties of the Representation Formulae for (Co) m-Parameters Operator Semigroups," special issue on "Concrete Analysis" in *J. "Computers, Math. & Appl."*, pp. 243-253, Vol. 30, No. 3-6, 1995.
49. With H. Gonska, "On Stochastic Global Smoothness," *Rev. Academia de Ciencias Zaragoza* 49, (1994), pp. 119-136.
50. "Differentiated Shift-invariant Multivariate Integral Operators," in *S.W.J. Pure and Appl. Math, Electronic Journal*, Vol. 1, pp. 13-19, 1995.
51. "On Ostrowski Type Inequalities," *Proc. A.M.S.*, Vol. 123, No. 12, Dec 1995, pp. 3775-3781.

52. With Mi Zhou. "Asymptotic Expansions of the (Co) m-Parameter Operator Semigroups," "Num. Funct. Anal. & Optim," 16, (9 & 10), pp.1273-1291, 1995.
53. "Differentiated Shift-invariant Integral Operators," approx. Th. VIII, Vol. 1, Approx. and Interp., CK Chui and LL Schumaker (eds.) pp. 1-6, 1995, World Scientific Publishing Co., Inc.
54. Zhou, Mi and G. Anastassiou, "Asymptotic Expansions Related to (Co) m-Parameter Operator Semigroups," Approx. Th. VIII, Vol. 1, Approx. and Interp., CK Chui and LL Schulmaker (eds), pp. 563-570, 1995, World Scientific Publ. Co., Inc.
55. With Mi Zhou. "Representation Formulae for (Co) m-Parameter Operator Semigroups," "Annales Polonici Mathematici," LXIII. 3, pp. 247-272, 1996.
56. "Global Smoothness Preservation by Singular Integrals," "Proyecciones revista de Mathematica," Chile, Vol. 14, No. 2, pp. 83-88, 1995.
57. With A. Bendikov, "A Sharp Error Estimate for the Numerical Solution of Multivariate Dirichlet Problem," J. Computational and Applied Math." 75 (1996) pp. 215-229.
58. With XM Yu. "Multivariable Probabilistic Scale Approximation," in Journal "Fundamental Sciences and Appl." Plovdiv, Bulgaria, 1997, Vol. 5, 41-57.
59. With Mi Zhou. "On Simultaneous Approximation of Feller Operator," "Computers and Mathematics with Appl.," 31(1996), no. 10, 31-44.
60. "Lattice Homomorphism - Korovkin Type Inequalities for Vector Valued Functions," Hokkaido Math. J., 1997 Vol. 26(1997), p. 337-364.
61. "Shape and Probability preserving Univariate Wavelet Type Operators" in "Communications in Applied Analysis," 1(1997), no. 3, 303-314.
62. "Multivariate Ostrowski Type Inequalities," "Acta Mathematica Hungarica," 76(4) (1997), 267-278.
63. "Differentiated Shift - Invariant Integral Operators, Multivariate Case," "Bulletin Inst. of Math., Academia Sinica", Vol. 25, No.4, 1997, 243-275.
64. "Rate of Convergence of Some Neural Network Operators to the unit-univariate Case," J. Math. Anal. and Appl. 212, 237- 262 (1997).
65. "Lattice Homomorphism Inequalities for Vector Valued Functions," "Proceedings Non-Linear Analysis," 2nd WCNA, 1996, Nonlinear Analysis, Theory, Methods and Applications, Vol. 30, No. 1, pp. 549-554, 1997.
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725. G. ANASTASSIOU, OPIAL AND OSTROWSKI TYPE INEQUALITIES BASED ON TRIGONOMETRIC AND HYPERBOLIC TYPE TAYLOR FORMULAE, MALAYA J. MATHEMATIK, 11, S, 2023, 1-26.

726. G. ANASTASSIOU, INTEGRAL INEQUALITIES INVOLVING NEW CONFORMABLE DERIVATIVES, PFDA, 10(4)(2024), 557-568.

727. G. ANASTASSIOU, TOWARDS PROPORTIONAL FRACTIONAL CALCULUS AND INEQUALITIES, PFDA, 10(4)(2024), 569-586 .

728. G. ANASTASSIOU, PARAMETRIZED ERROR FUNCTION BASED BANACH SPACE VALUED UNIVARIATE NEURAL NETWORK APPROXIMATION, ACM, 6, 1, 2023, 31-43.

729. G. ANASTASSIOU, PARAMETRIZED ERROR FUNCTION BASED BANACH SPACE VALUED MULTIVARIATE MULTI LAYER NEURAL NETWORK APPROXIMATIONS, ANALELE UNIVERSITATII ORADEA FASC. MATEMATICA, XXX, 2023, 1, 129-147.

730. G. ANASTASSIOU, FUZZY ORDINARY AND FRACTIONAL GENERAL SIGMOID FUNCTION ACTIVATED NEURAL NETWORK APPROXIMATION, TRANS. FUZZY SETS AND SYSTEMS, 2, 2, 2023, 15-38, IRAN.

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732. G. ANASTASSIOU, ABSTRACT VORONOVSKAYA TYPE ASYMPTOTIC EXPANSIONS FOR GENERAL SIGMOID FUNCTIONS BASED QUASI-INTERPOLATION NEURAL NETWORK OPERATORS, JNEEA, 6, 2023, 87-103.

733. G. ANASTASSIOU, ABSTRACT UNIVARIATE NEURAL NETWORK APPROXIMATION USING A  $q$ -DEFORMED AND  $L$ -PARAMETRIZED HYPERBOLIC TANGENT ACTIVATION FUNCTION, FRACT. FRACT. /MDPI, 2023, 7, 208, <https://doi.org/10.3390/fractalfract7030208>

734. G. ANASTASSIOU,  $q$ -DEFORMED AND  $b$ -PARAMETRIZED HALF HYPERBOLIC TANGENT BASED BANACH SPACE VALUED ORDINARY AND FRACTIONAL NEURAL NETWORK APPROXIMATION, ACM, 6, 1, 2023, 1-16.

735. G. ANASTASSIOU, q-DEFORMED AND L-PARAMETRIZED A-GENERALIZED LOGISTIC FUNCTION BASED BANACH SPACE VALUED ORDINARY AND FRACTIONAL NEURAL NETWORK APPROXIMATIONS, BULLETIN OF THE TRANSILVANIA UNIVERSITY OF BRASOV SERIES III: MATHEMATICS AND COMPUTER SCIENCE, 3, 65, 2, 2023, 31-52.

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740. G. ANASTASSIOU, "TRIGONOMETRIC DEDUCED  $L_p$  DEGREE OF APPROXIMATION BY VARIOUS SMOOTH SINGULAR INTEGRAL OPERATORS", BEIRUT-D. BALEANU PROCEEDINGS, APRIL 18-20, 2024, 7NTH CONFERENCE ICMMAAC-24, VOL. 1, 1-32, 2025.

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746. G. ANASTASSIOU, “MULTIVARIATE APPROXIMATION BY PARAMETRIZED LOGISTIC ACTIVATED MULTIDIMENSIONAL CONVOLUTION TYPE OPERATORS”, ANNALS OF COMMUNICATIONS IN MATHEMATICS, 7(2)(2024), 128-159.
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749. G. ANASTASSIOU, “QUANTITATIVE UNIFORM APPROXIMATION BY ACTIVATED SINGULAR OPERATORS”, MDPI/MATHEMATICS, INVITED BY DR. NEMO GUAN, 2023, 12, 2152; <https://doi.org/10.3390/math12142152>.
750. G. ANASTASSIOU, “ACTIVATED APPROXIMATION BY FRACTIONAL SMOOTH SINGULAR OPERATORS”, SUBMITTED, PFDA, 9-15-25.
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752. G. ANASTASSIOU, “APPROXIMATION BY COMPLEX ACTIVATED SINGULAR INTEGRAL OPERATORS”, ANALELE UNIVERSITATII ORADEA, FASC. MATEMATICA, XXXI 2024, 2, 125-138.
753. G. ANASTASSIOU, “MULTIVARIATE PERTURBED HYPERBOLIC TANGENT ACTICATED SINGULAR INTEGRALS APPROXIMATION”, MDPI/MATHEMATICS, INVITED BY NEMO GUAN, 2024, 12, 2700; <https://doi.org/10.3390/math12172700>
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765. G. ANASTASSIOU, “VORONOVSKAYA TYPE ASYMPTOTIC EXPANSIONS FOR SMOOTH SYMMETRIZED AND PERTURBED HYPERBOLIC TANGENT MULTIVARIATE NEURAL NETWORK APPROXIMATIONS OVER INFINITE DOMAINS”, ROMAI, 21, 1, 2025, 1-24.
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770. G. ANASTASSIOU, "NEURAL NETWORK APPROXIMATION OVER FINITE DIMENSIONAL BANACH SPACES", RACSAM, 2025, 119:55, <https://doi.org/10.1007/s13398-025-01722-3>.
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775. G. ANASTASSIOU, "NEURAL NETWORKS AS POSITIVE LINEAR OPERATORS MULTIVARIATE AND ABSTRACT CASE", SPRINGER PROCEEDINGS FOR ICMMAAC 2025, SUBMITTED, 3-24-25.
776. G. ANASTASSIOU, "MULTIVARIATE NEURAL NETWORKS OVER INFINITE DOMAIN AS POSITIVE LINEAR OPERATORS AND A TOUCH OF MEASURE THEORY", MOROCCAN JOURNAL OF PURE AND APPLIED ANALYSIS, ACCEPTED, 5-27-25.
777. G. ANASTASSIOU, "FRACTIONAL CASE OF COMPOSITION OF ACTIVATION FUNCTIONS AND THE REDUCTION TO FINITE DOMAIN", INDIAN SPRINGER PROCEEDINGS, VOL. 2, 2025, ED. J. SINGH, G. ANASTASSIOU ET AL, SUBMITTED, 9-26-25.
778. G. ANASTASSIOU, "COMPOSITION OF ACTIVATION FUNCTIONS AND THE REDUCTION TO FINITE DOMAIN AT FRACTIONAL AND FUZZY FRAMEWORK", PFDA, ACCEPTED, 9-30-25.
779. G. ANASTASSIOU, "COMPOSITION OF ACTIVATION FUNCTIONS AND THE REDUCTION TO FINITE DOMAIN AT MULTIVARIATE FUZZY FRAMEWORK", ROMAI, SUBMITTED, 10-1-25.
780. G. ANASTASSIOU, "GENERALIZED LOGISTIC NEURAL NETWORKS IN POSITIVE LINEAR FRAMEWORK", MDPI-SYMMETRY, 2025, 17, 746; <https://doi.org/10.3390/sym17050746>.
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783. G. ANASTASSIOU, "POSITIVE LINEAR FRAMEWORK FOR NEURAL NETWORKS WITH GENERALIZED LOGISTIC STRUCTURE MULTIVARIATE AND FINITE DOMAIN CASE", ATSF, OF OKTAY DUMAN, ACCEPTED, 7-31-25.

784. G. ANASTASSIOU, D. KOULOUMPOU, "FRACTIONAL VORONOVSKAYA ASYMPTOTIC EXPANSIONS BY QUASI-INTERPOLATION NEURAL NETWORK OPERATORS APPLIED TO BROWNIAN MOTION", ANALELE UNIVERSITATI ORADEA, FASC. MATEMATICA, ACCEPTED, 6-15-25.
785. G. ANASTASSIOU, "MULTIVARIATE GENERALIZED LOGISTIC NEURAL NETWORKS ON INFINITE DOMAIN AS POSITIVE LINEAR OPERATORS AND A TASTE OF MEASURE THEORY", ATSF, BY O. DUMAN, ACCEPTED, 4-22-25.
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787. G. ANASTASSIOU, "APPROXIMATION BY SYMMETRIZED AND PERTURBED GENERALIZED LOGISTIC ACTIVATED CONVOLUTIONS INTERPRETED AS POSITIVE LINEAR OPERATORS", ROMAI JOURNAL, 21(1)(2025), 25-41.
788. G. ANASTASSIOU, "COMPLETE APPROXIMATION BY SYMMETRIZED AND PERTURBED HYPERBOLIC TANGENT ACTIVATED MULTIDIMENSIONAL CONVOLUTIONS AS POSITIVE LINEAR OPERATORS", ANNALS OF COMMUNICATIONS IN MATHEMATICS (ACM), 8(2)(2025), 234-252.
789. G. ANASTASSIOU, "COMPLETE APPROXIMATION BY SYMMETRIZED AND PERTURBED GENERALIZED LOGISTIC ACTIVATED MULTIDIMENSIONAL CONVOLUTIONS IN POSITIVE LINEAR FRAMEWORK", RACSAM, (2025) 119:96; <https://doi.org/10.1007/s13398-025-01766-5>.
790. G. ANASTASSIOU, "FUZZY SYMMETRIZED AND PERTURBED NEURAL NETWORK APPROXIMATION", NEURAL, PARALLEL AND SCIENTIFIC COMPUTATIONS, 33(2025) 55-82.
791. G. ANASTASSIOU, ALINA LUPAS, "DIFFERENTIAL SANDWICH THEOREMS FOR CONVOLUTION PRODUCT OF RUSCHEWEYH OPERATOR AND MULTIPLIER TRANSFORMATION", RACSAM, SUBMITTED, 6-23-25.
792. G. ANASTASSIOU, "MULTIVARIATE FUZZY-RANDOM SYMMETRIZED AND PERTURBED NEURAL NETWORK ENHANCED APPROXIMATION", JAPM, RYOO, S. KOREA, ACCEPTED, 9-15-25.
793. G. ANASTASSIOU, "COMPOSITION OF ACTIVATION FUNCTIONS AND THE REDUCTION TO FINITE DOMAIN", MATHEMATICS, 2025, 13, 3177; <https://doi.org/10.3390/math13193177>.
794. G. ANASTASSIOU, "MULTIVARIATE CASE OF COMPOSITION OF ACTIVATION FUNCTIONS AND THE REDUCTION TO FINITE DOMAIN", ISSUES OF ANALYSIS, SUBMITTED, 9-24-25.

## Refereed Conference Publications

Many

## Presentations - Conference (refereed \*)

1. Invited 1 hour main speaker in 5th International Congress on Comput. and Appl. Math., July 27 - Aug. 1, 1992: Leuven, Belgium.

2. Invited 1 hour main speaker in 1st International Conference on "Approximation, Probability, and Related Fields," May 20- 22, 1993, Santa Barbara, CA (U.C.S.B.).
3. Invited 1 hour main speaker in 2nd International Conference on "Non-Linear Analysis," July 10-17, 1996, Athens, Greece.
4. Invited 1 hour main speaker in 5th International Colloquium on "Numerical Analysis," August 13-17, 1996, Plovdiv, Bulgaria.
5. Invited 1 hour main speaker in the 3rd International Conference on "Marginal Moment Problems," September 1-7, 1996, Prague, Czech Republic.
6. Invited 30 minute talk for International Conference "Combinatorial & global optimization," Chania Crete-Greece, May 25-29, 1998.
7. International Congress of Mathematics 94, Zurich, Switzerland.
8. Annual Meetings of the American Mathematical Society
  - (a) January, 1984 (Louisville, Kentucky), also chairman of "Approximation and Expansions" session.
  - (b) January, 1985 (Anaheim, California)
  - (c) January, 1986 (New Orleans, Louisiana)
  - (d) January, 1987 (San Antonio, Texas)
  - (e) January, 1988 (Atlanta, Georgia) [invited talk at the special session on total positivity]
  - (f) January, 1990 (Louisville, Kentucky)
  - (g) January 1991 (San Francisco, CA)
  - (h) January 1992 (Baltimore, Maryland) (invited to talk at the special session on Harmonic Anal., Signals and Wavelets)
  - (i) January 1993 (San Antonio, Texas)
  - (j) January 1994 (Cincinnati, Ohio), also I was the Chairman of "Approximation and Expansions" session.
  - (k) January 1995 (San Francisco, CA), presented 3 papers, Chairman of the session "Sequences, Series and Approximations."
  - (l) January 1996 (Orlando, FL) absent, 20 min. invited speaker in the session "Computational Harmonic Analysis and Approximation Theory."
  - (m) January 1997 (San Diego, CA)
  - (n) March 1997 (Memphis, TN), sectional meeting of AMS.
  - (o) January 1998 (Baltimore, MD), also chairman of "Approximation and Expansions," session.

- (p) January 1999, (San Antonio, Texas).
  - (q) January 2000, (Washington, D.C.)
  - (r) January 2001, (New Orleans, LA).
  - (s) April 2001, (Las Vegas, NV).
  - (t) January 2002 (San Diego, CA), 20' min. invited talk in special session, "Analysis and Application of Quasilinear PDEs".
  - (1) May 2002 (Montreal, Canada), Sectional meeting of AMS, contributed talk.
  - (2) January 2003 (Baltimore, Maryland), annual meeting of AMS, contributed talk, and chairing "Analysis" session.
  - (3) January 2004 (Phoenix, AZ), annual meeting of AMS, contributed talk.
  - (4) January 2005 (Atlanta, GA), annual meeting of AMS, contributed talk.
9. (i) Fifth International Symposium on Approximation Theory January, 1986 (College Station, Texas)
- (ii) Eighth International Symposium on Approximation Theory, January 1995 (College Station, TX), presented 2 papers.
- (iii) Ninth International Symposium on Approximation Theory, January 1998 (Nashville, TN).
- (iv) "Trends in Approximation Th. 2000", International conference, Vanderbilt University, Nashville, TN, May 17-20, 2000.
- (v) "10th International Conference on Approximation Theory", hotel Sheraton, St. Louis, MO, March 26-29, 01.
- (vi) "11th International Conference on Approximation Theory", hotel Park Vista, Gatlinburg, TN, 5-(18-20)-04.
10. Annual Meetings of Southeastern Approximation Theorists
- (a) April, 1987 (University of South Carolina)
  - (b) April, 1988 (Georgia Institute of Technology)
  - (c) January 1989 (Texas 6th International Symposium on Approximation Theory)
  - (d) April 1989 (Auburn University)
  - (e) March 1990 (University of South Florida) (in conjunction with the 1st US - USSR international meeting on Approximation Theory.)
  - (f) March 1991 (University of Memphis)
  - (g) January 1992 (Texas 7th International Symposium on Approximation Theory)

- (h) November 1994 (Vanderbilt University), presented 2 papers.
- (i) April 1997 (University of Georgia, Athens).
11. (i) Regional Meeting of A.M.S., U.S.F., Tampa, FL, March 1991, 20 minute talk.
- (ii) Regional Meeting of A.M.S., University of Alabama, Tuscaloosa, March 1992, 20 minute invited talk.
- (iii) Regional Meeting of A.M.S., S.W.M.S.U., Springfield, Missouri, March 1992, 20 minute invited talk.
- (iv) Regional Meeting of A.M.S., U.T., Knoxville, TN, March 1993, 20 minute contributed talk.
- (v) Regional meeting of A.M.S., U.C.F., Orlando, FL, March 95, two 20 minute invited talks. Presented two 2 papers.
- (vi) Regional meeting of A.M.S., NYU, Courant Institute, April 1996, 10 minute contributed talk.
- (vii) Regional meeting of A.M.S., Univ. Illinois at Urbana-Champaign, March 1999, 20 minute invited talk, Chair of Session.
- (viii) Regional meeting of AMS, Univ. Central Florida, Orlando, FL., Nov. 2002, 20 minutes invited talk, Organizer of session on "Computational Methods in Analysis".
12. Organizer "Approximation Theory" seminar giving talks. (1994-1995)
13. Member of scientific committee of 7th Intern. Congress on Computational and Appl. Math.", July 21-26 1996, Leuven, Belgium.
14. Local Chair of regional meeting of the A.M.S. in Memphis, March 1997.
15. Organizer of special session on "Approx. in Math." in regional meeting of A.M.S. in Memphis, March 1997.
16. 20'min. contributed talk in "Trends in Banach Spaces", U.Memphis, Oct 5-9, 2001.
17. Contributed talk in Regional meeting of AMS, Vanderbilt U., Nashville, TN, October 2004.
18. Contributed talk in "5th Intern. Conf on Functional Anal. and Approximation Th.", in Maratea-Italy, June (16-20), 2004.

#### PRESENTATIONS IN CONFERENCES OF PERIOD 2005-2006.

- 1) AMS annual meeting, January 2006, San Antonio, Texas.
- 2) AMS regional meeting, ETSU, Johnson City, TN, Oct. 05, 20'min. INVITED talk. Also Chair of an Approx. Th. session.
- 3) 1 hour invited speaker, "Internat. Conf. Diff. & Difference Equations with Appl.", in Melbourne, FLA, (1-5) Aug. 05.
- 4) 1 hour invited speaker, "Internat. Conf. Numerical Analysis and Applied Mathematics 05", in Rhodes, Greece, Sept (16-20)-05.

More Presentations 2006:

- 1)AMS regional meeting, April 2006, U. Notre Dame, IN, 20' invited talk.
- 2)Lectures Summer 06: Universities of Peloponnese, Patras (Greece), U. of Bari (Italy).
- 3)MAIN SPEAKER in International Conference on "Numerical Analysis and Approximation Theory 2006", July 5-9, U. Babes-Bolyai, Cluj-Napoca, Romania.

#### PRESENTATIONS 2008

- 1)JAN.6-9, 2008, SAN-DIEGO, CA, #1035 AMS ANNUAL MEETING, 30'

INVITED TALK, IN THE SPECIAL SESSION "MONOTONE DISCRETE DYNAMICAL SYSTEMS AND APPLICATIONS".

- 2) PLENARY SPEAKER AND ORGANIZER OF "AMAT 2008" ("APPLIED MATHEMATICS AND APPROXIMATION THEORY INTERNATIONAL CONFERENCE") DURING OCTOBER 11-13, 2008, U. MEMPHIS, MEMPHIS, TN, USA.

TITLE OF 1-HOUR TALK: "FRACTIONAL DIFFERENTIATION INEQUALITIES".

III) G. ANASTASSIOU WAS INVITED AND LECTURED DURING HIS SABBATICAL SEMESTER-SPRING 08, PERIOD MARCH 17- APRIL 5, 2008 IN: (1) PONTIFICA CATHOLIC UNIVERSITY OF SANTIAGO, CHILE, (2) NATIONAL INSTITUTE OF NUMERICAL COMPUTATIONS, IN PETROPOLIS, BRAZIL, (3) FEDERAL UNIVERSITY OF RIO DE JANEIRO, BRAZIL, AND (4) NATIONAL UNIVERSITY OF SAN MARTIN, BUENOS AIRES, ARGENTINA.

IV) GEORGE ANASTASSIOU GAVE THE FOLLOWING TALKS AND PARTICIPATED IN THE FOLLOWING CONFERENCES DURING SUMMER 2008: (1) "INTERNATIONAL CONFERENCE IN CHAOS II", ISTANBUL, TURKEY, MAY 6-10, 2008. HE WAS AN 1-HOUR PLENARY SPEAKER AND LECTURED ON "CAPUTO FRACTIONAL INEQUALITIES". (2) HE WAS INVITED AND LECTURED ABOUT "FRACTIONAL CALCULUS", IN TOBB ECONOMICS UNIVERSITY, ANKARA, TURKEY, MAY 11-14, 2008. (3) HE WAS INVITED AND LECTURED AT ATHENS UNIVERSITY, GREECE, CONFERENCE OF GREEK ANALYSTS, MAY 15-17, 2008, ABOUT "FRACTIONAL INEQUALITIES".

(4) HE PARTICIPATED IN "INTERNATIONAL CONFERENCE IN ALGEBRA", IN ATHENS TECHNICAL UNIVERSITY, DURING MAY 27-29, 2008.

- 1) #115 ANNUAL MEETING OF AMS IN WASHINGTON, DC, JAN. 5-8, 2009, CONTRIBUTED TALK.
- 2) AT UNIVERSITY OF ATHENS, MATH. DEPT., GREECE, ONE HOUR TALK, MAY- 21-2009.

#### ANASTASSIOU TALKS 2010

- 1) 20' MINUTES INVITED TALK, ANNUAL MEETING OF AMS, SAN FRANCISCO, CA, JAN. 13-16, 2010.

2) PLENARY SPEAKER IN 3RD INTERNATIONAL SYMPOSIUM IN CHAOS AND COMPLEX SYSTEMS,  
MAY 21-24, 2010

ISTANBUL KULTUR UNIVERSITY, TURKEY.

3) CONTRIBUTED TALK IN GREEK NATIONAL CONFERENCE OF MATH. ANALYSTS,

U. IOANNINA, GREECE, MAY28-29, 2010.

GREECE

TWO 20' MINUTES INVITED PRESENTATIONS IN THE ANNUAL MEETING OF AMS, NEW ORLEANS,  
LA, JANUARY 6-9, 2011

GEORGE ANASTASSIOU 2012 TALKS:

1) IN 118TH AMS ANNUAL MEETING , JANUARY 4-7, 2012, BOSTON, MA: HE PRESENTED 3  
ARTICLES, 2 OF THEM WERE INVITED.

2) HE DELIVERED 2 PLENARY HOURLY LECTURES IN THE INTERNATIONAL CONFERENCE ON  
APPLIED MATHEMATICS AND APPROXIMATION THEORY 2012

(AMAT 2012), HELD IN ANKARA, TURKEY, TOBB UNIVERSITY OF ECONOMICS AND TECHNOLOGY,  
DURING MAY 17-20, 2012. THE CONFERENCE WAS

ORGANISED TO CELEBRATE PROFESSOR ANASTASSIOU 60TH BIRTHDAY.

2013 G. ANASTASSIOU TALKS:

1) 3 TALKS, ONE OF THEM INVITED, IN ANNUAL MEETING AMS, SAN DIEGO, CA, JAN. 9-12, 2013.

2) CONTRIBUTED TALK AMS SECTIONAL MTG, U. MISS., OXFORD, MISS., 3-2-13.

3) INVITED ONE HOUR LECTURE AT U. ATHENS, ATHENS, GREECE, 6-18-2013.

4) DURING DEC. 14-DEC. 31, 2013, I GAVE INVITED LECTURES:

(i) HANYANG UNIV., SEOUL, S. KOREA,

(ii) ACADEMY OF SCIENCE, APPLIED MATH., BEIJING, CHINA, 2 LECTURES,

(iii) SHANGHAI JIAN TONG UNIV., CHINA.

2014 G. ANASTASSIOU TALKS:

1) 3 INVITED 20' LECTURES IN THE ANNUAL MEETING OF AMS, BALTIMORE, MARYLAND,  
JANUARY 15-18, 2014.

TALKS 2015:



1) DURING 10-13 JANUARY 2015, IN SAN ANTONIO, TX, ANNUAL MEETING OF AMS, I PRESENTED 3 PAPERS, 2 OF THESE WERE 20' INVITED TALKS.

2) 20' INVITED TALK AMS REGIONAL MEETING LAS VEGAS, NEVADA, APRIL 18-19, 2015.

3) COLLOQUIUM LECTURE IN WARSAW TECHNICAL UNIVERSITY , MAY 15, 2015, WARSAW, POLAND.

4) CO-ORGANIZER OF AMAT 2015, ANKARA, TURKEY, AND PLENARY SPEAKER, MAY 28-31, 2015.

5) ORGANIZER SPECIAL SESSION "COMPUTATIONAL ANALYSIS", 1113 AMS REGIONAL MEETING, OCT. 17-18, 2015, UNIV. MEMPHIS, MEMPHIS, TN.

I PRESENTED ALSO 2X 20' INVITED TALKS.

G. ANASTASSIOU TALKS 2016: 1)" Professor of Mathematics George Anastassiou, of U. Memphis, participated and presented two articles in the annual meeting of American Mathematical Society, held in Seattle, WA, during January 6-9, 2016. One of the articles was an invited lecture, it was joint work with his graduate student Merve Kester who was the speaker of it."

"Professor George Anastassiou of the Department of Mathematical Sciences of University of Memphis, during summer 2016 had the following outreach activities: 1)on June 2, 2016, he lectured at the University of Athens, Greece, about "Self-Adjoint Operator Korovkin Theory", 2) he participated in an international conference in Bulgaria, Sozopol, June 11-17, 2016, titled "Constructive Theory of Functions, 2016", and he presented "Self-Adjoint Operator Approximation Theory by Positive Linear Operators", 3) on July 21, 2016, invited by Greek Mathematical Society, he lectured in front of gifted high school students from all over Greece, in the summer school in Leptokaria, north Greece, the title of his talk was "A discussion about Ostrowski's inequality".

"Professor George Anastassiou of the Department of Mathematical Sciences of University of Memphis, during November 26-December 8, 2016 visited Bangkok, Thailand at the invitation of the Department of Mathematics, King Mongkut's University of Technology North Bangkok. He lectured there for over four hours about Operator Approximation Theory and Inequalities and he had research collaboration with two professors there."

TALKS 2017: Professor George Anastassiou of University of Memphis, Department of Mathematical Sciences participated in the annual meeting of American Mathematical Society held in Atlanta, GA, during 3-7 January, 2017. He presented three papers, two of them were invited. All of them were on the topic of "Operator Inequalities", on its various aspects.

2018 LECTURES: 1) 124 TH ANNUAL MEETING OF AMERICAN MATHEMATICAL SOCIETY , SAN DIEGO, CA, JANUARY 10-13, 2018. ANASTASSIOU PRESENTED 3 INVITED 20' PAPERS AND 1 CONTRIBUTED PAPER 10'. 2) 30' INVITED PAPER IN ICOMAS, U. MEMPHIS, TN, MAY 7-10, 2018. 3) 20' INVITED PAPER IN "FIRST CONGRESS OF GREEK MATHEMATICIANS FCGM-2018", JUNE 25-30, 2018, HELD IN ATHENS, GREECE, AT UNIV. ATHENS, MATH. DEPT.

2020 G. ANASTASSIOU LECTURES IN CONFERENCES: 1) 10' CONTRIBUTED TALK IN AMS, ANNUAL MEETING, JAN. 15-18, 2020, DENVER, COLORADO. 2) KEYNOTE PLENARY SPEAKER, DEC. 4-6, 2020, ISTANBUL, TURKEY, "FIRST ONLINE CONFERENCE ON MODERN FRACTIONAL CALCULUS AND ITS APPLICATIONS". 2021 G. ANASTASSIOU LECTURES: 1) 20' INVITED TALK, 1-8-2021, AMS ANNUAL MEETING #1163, VIRTUAL MATHEMATICS MEETING (WASHINGTON DC), JAN. 6-9, 2021. 2) 2 ONE-HOUR LECTURES AT NEWTON INSTITUTE, CAMBRIDGE UNIVERSITY, FRACTIONAL DE SEMINAR, MARCH 1-14, 2021, POSTPONED FOR 2022.

OTHER 2021 G, ANASTASSIOU INVITED LECTURES: 1) 20' INVITED TALK IN THE "FIRST ONLINE WESTERN BALKAN CONFERENCE ON MATHEMATICS AND APPLICATIONS", 10-12 JUNE 2021, KOSOVO-PRISTINE. TITLE: "FOUNDATIONS OF GENERALIZED PRABHAKAR-HILFER FRACTIONAL CALCULUS WITH APPLICATIONS". 2) 1 HOUR KEYNOTE SPEAKER IN "ONLINE INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING" (ICAAMM 2021), BIRUNI UNIVERSITY, ISTANBUL, TURKEY, 11-13 JUNE 2021. TITLE: "IYENGAR-HILFER FRACTIONAL INEQUALITIES". 3) 1 HOUR KEYNOTE SPEAKER IN ICMMAAC-21 "4RTH INTERNATIONAL CONFERENCE ON MATHEMATICAL MODELLING, APPLIED ANALYSIS AND COMPUTATION-2021" (A VIRTUAL INTERNATIONAL CONFERENCE) JECRC UNIVERSITY, JAIPUR, INDIA, AUGUST 5-7, 2021. THE CONFERENCE WAS HONORING MY 69TH BIRTHDAY.

ISAAC NEWTON INSTITUTE FOR MATHEMATICAL SCIENCES (INI) CAMBRIDGE UNIVERSITY/UK, FRACTIONAL DIFFERENTIAL EQUATIONS-2, 4 TH JANUARY TO 29TH APRIL 2022, A SPECIAL PROGRAMME WITH WORKSHOPS. 2) "George Anastassiou was a KeyNote speaker at the INTERNATIONAL SYMPOSIUM ON APPLIED MATHEMATICS AND ENGINEERING held on January 21-23, 2022 at Biruni University, Istanbul, Turkey. His talk was entitled: "Abstract Bivariate Left Fractional Pseudo-Polynomial Monotone Constrained Approximation with applications" Also this conference honored George Anastassiou for his 70th birthday."

3) THREE 1 HOUR LECTURES AT INI: 1-31-22, 3-7-22, 2-28-22. 4) 20' INVITED TALK AT THE VIRTUAL ANNUAL MEETING OF AMS, APRIL 6-9, 2022.

1) Keynote speaker in "ONLINE INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 2022" (ICAAMM 2022), Biruni University, Istanbul, Turkey, July 1-3, 2022. Title of the lecture: "Ordinary and Fractional Approximation by Neural Network Operators Revisited". 2) Participant in the "2 nd World Congress of Greek Mathematicians", National Technical University of Athens, Greece, July 5-8, 2022. 3) Keynote speaker in "5th International Conference on Mathematical Modelling, Applied Analysis and Computation" (ICMMAAC-22), JECRC University, JAIPUR, INDIA, August 4-6, 2022. Title of lecture: "Approximation by Neural Networks".

1) Annual meeting of AMS, January 4-7, 2023, Boston MA:

i) One hour invited lecture, ii) 20' invited lecture.

2) Main speaker, MDPI webinar, May 12, 2023, Zurich, Switzerland.

3) 1st International Statistics Conference, 25-28 May 2023, Athens, Greece.

4) Main speaker, ICOMSS23, Selcuk, Turkey, June 5-7, 2023.

5) Invited speaker, ICNSC 2023, Istanbul, Turkey, July 10-15, 2023.

6) Invited speaker and Honorary Chair, ICMMAAC-23, Jaipur, India, August 3-5, 2023.

## **Presentations - Universities/Industry (refereed \*)**

1. During 1984-1997 I gave: Invited talks at St. Louis University, U.R.I., Brown University, Kent State University, G. Washington University, Washington, DC., University of Texas at Arlington, University of Tulsa, Kansas State University, Memphis State University and Wichita State University.

2. Invited talks at the University of Duisburg, Technological Institute of Aachen in W. Germany, also in the Bulgarian Academy of Science, Sofia (Summer 1990), University of Frankfurt (July 1991), Oakland University (November 1993).

3. Invited talks in most of Greek Universities (1984-1998) more than one time in most of them.
4. Invited talks during my sabbatical, Spring semester 1993:
  - (i) Colloquium and seminar at University NC. Stat. Dept. (February 1993)
  - (ii) Colloquium at Erlangen University, Germany, (February 1993)
  - (iii) Colloquium at University of Athens, Greece, (March 1993)
  - (iv) Colloquium at Amer. Univ. Cairo, Egypt, (March 1993)
5. Second annual University of Arkansas, M.S.U. Math exchange.
6. I have been giving about 2 talks per semester in our Analysis Seminar at the University of Memphis (1986-1997).
7. During my sabbatical of Spring semester, 1993, I did active research at the University of North Carolina with S. Cambanis (Stat.), and at Oberwolfach - Math Research center (NATO Grant) with H. Gonska (Math-E.B.S.), Germany.
8. During April 11-14, 1998 I was invited at NYC by Plenum Press to hold organizational talks about G.A.s J. of CAAA.
9. During August 23-24, 1999, I was invited/lectured at the University of Macedonia, Greece.
10. Invited/gave lectures, did research during March-April 2000 (Sabbatical Spring semester 2000) in:
  - i. City University of Hong-Kong
  - ii. National University of Singapore
  - iii. University of Adelaide - Australia
  - iv. University of South Australia
  - v. Victoria University in Melbourne, Australia
  - vi. University of New South Wales, Sydney, Australia
  - vii. University of Auckland, New Zealand
  - viii. State University of California at Los Angeles
  - ix. Took part in the Conference on Fundamental Sciences, Singapore, March 17, 2000.
11. During May 10-30, 2003: Research Collaborations in "Technological University of Compiegne"(France), "University of Karlsruhe"(Germany), invited one hour talks at "University of Duisburg-Essen"(Germany), "University of Patras"(Greece).

12. During Summer 2004 he lectured at the University of Perugia-Italy, U. Patras-Greece, Istanbul Kultur University, Turkey

and had scientific contacts in Albania, universities of Tirana and Argyrocastro also at the U. Ioannina-Greece.

AFTER INVITATION I GAVE 2 ONE HOUR LECTURES IN UNIVERSITY OF ROME "LA SAPIENZA", ITALY, JULY 10, 2002.

1) ON 3-9-05 PRESENTED AN ANALYSIS SEMINAR AFTER INVITATION AT THE UNIVERSITY OF MISSISSIPPI, OXFORD, MISS.

2) ONE TALK IN EACH SPRING 05 AND FALL 05 SEMESTERS, U. MEMPHIS IN APPLIED MATH. SEMINAR.

3) DURING MAY 9-15, 05, INVITED TRIP AND TALKS TO TOKYO, JAPAN. I GAVE 2 LECTURES IN WASEDA U. AND 1 IN TOKYO U. OF SCIENCE.

### **Other Presentations (refereed \*)**

DURING ALL OF MY EMPLOYMENT GIVING 2-4 LECTURES ANNUALLY AT THE UNIVERSITY OF MEMPHIS SINCE 1986, AND EARLIER AT URI

1984-2008, IN DEPARTMENT OF MATHEMATICAL SCIENCE SEMINARS, PRESENTING ALWAYS NEW ORIGINAL RESEARCH PAPERS.

PRESENTATIONS 2007

1) 45' invited talk in # 1023 AMS annual meeting, N. Orleans, LA, Jan. 5-8, 2007.

2) 20' contributed talk in "12 th International Conference on Approx. Theory", March 4-8, 2007,

San Antonio, TX.

3) 30' talk in "31st SIAM Southern-Atlantic Section Conference", May 4-5, 07, U. Memphis, TN.

4) Invited talk at the " Union of Greek Mathematicians", Athens, Greece 5-13-07.

5) Invited talk at " Academy of Science", Budapest, Hungary, 5-24-07.

6) 25' invited talk in Wavelet and Splines special session in Regional AMS mtg #1033, Murfreesboro, TN, Nov. 3-4, 07.

2019 Lectures: 1) During January 16-19, 2019, in the 125th annual meeting of American Mathematical Society, held in Baltimore, Maryland, G. Anastassiou, presented 2 invited papers, each 20' invited talk. 2) On June 14-2019, G. Anastassiou lectured at the Department of Mathematics of Moscow State University (Lomonosov U.), Russia.

### **G. ANASTASSIOU LECTURES IN 2024:**

1) ANNUAL AMS MEETING, SAN FRANCISCO, CA, 3-6 JANUARY 2024,

CONTRIBUTED PAPER PRESENTATION.

2) PLENARY SPEAKER IN 7<sup>NTH</sup> INTERNATIONAL CONFERENCE ON MATHEMATICAL MODELLING, APPLIED ANALYSIS AND COMPUTATION, LEBANESE AMERICAN UNIVERSITY, BEIRUT, LEBANON, 18-20 APRIL 2024 (ICMMAAC-24), HONORING ALSO MY 70<sup>TH</sup> BIRTHDAY.

3) PLENARY SPEAKER IN “INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING”, 2024 BIRUNI UNIVERSITY, ISTANBUL, TURKEY, 19-23 JULY 2024, ISTANBUL, TURKEY. TITLE OF LECTURE: “PARAMETRIZED TRIGONOMETRIC DERIVED  $L_p$  DEGREE OF APPROXIMATION BY VARIOUS SMOOTH SINGULAR INTEGRAL OPERATORS”, LECTURE DELIVERED ON 7/19/24.

#### 4) DESCRIPTION OF THE EVENT:

“APPROXIMATION THEORY-SPECIAL FUNCTIONS 2024”, International

Conference - 8th Series

TOBB Economics and Technology University

September 4-7, 2024

Ankara – Türkiye

<https://sites.google.com/view/atsf2024>

“This conference was dedicated to the valuable contributions to mathematics of our esteemed colleague Prof. George Anastassiou and to his upcoming retirement years.”

PROFESSOR EMERITUS GEORGE ANASTASSIOU OF MATHEMATICS WAS A TWO HOURS PLENARY SPEAKER AND PRESENTED THE FOLLOWING PAPERS:

1) “Multivariate perturbed Hyperbolic Tangent activated Singular Integrals Approximation”,

2) “Approximation by Parametrized logistic activated convolution type operators”.

There were 204 participants from various countries from

around the world who presented 170 talks.

## 2025 TALKS:

GEORGE ANASTASSIOU HAS BEEN A KEYNOTE SPEAKER IN ICMMAAC-25(HYBRID MODE), THAT IS

IN “ 8<sup>TH</sup> INTERNATIONAL CONFERENCE ON MATHEMATICAL MODELLING, APPLIED ANALYSIS AND COMPUTATION-2025, AT JECRC UNIVERSITY, JAIPUR, INDIA, AUGUST 1-3, 2025. LECTURE ON 2, 2025. TITLE OF TALK: “ NEURAL NETWORKS AS POSITIVE LINEAR OPERATORS”.

ALSO HE WAS THE HONORARY CHAIR OF THIS CONFERENCE.

## SUPPORT

| (External)<br>ACTIVITY | AGENCY/SOURCE | AMOUNT     | PERIOD     |
|------------------------|---------------|------------|------------|
| Travel Research Grant  | NATO          |            | 1990-1993  |
| Renewal                | NATO          |            | 1992, 1993 |
| 6th S.E.A. Conference  | NSF           | \$8,500.00 | 1991       |

## SERVICE

| UNIVERSITY                               | COMMITTEE/ACTIVITY                           | PERIOD                                             |
|------------------------------------------|----------------------------------------------|----------------------------------------------------|
| DEPT.of MATH:Graduate Curriculum and T&P | Committees                                   | 2006-2007                                          |
| U.Memphis/College of Arts and Sciences   | Graduate Council Committee                   | Fall 2007                                          |
| Dept.Math.Sci.                           | Graduate Program Committee                   | Fall 2007                                          |
| Dept.Math.Sci.                           | T and P committee                            | 2007-2008                                          |
| Dept.Math.Sci.,                          | Graduate students committee, T & P committee | 2008-2011                                          |
| MEMPHIS/MATH.DEPT                        | HIRING COMMITTEE                             | 2010-11                                            |
| U. MEMPHIS/MATH.DEPT                     | T AND P                                      | 2012-2013, 2014, 2015, 2016, 2017, 2018, 2019-2024 |
| U. MEMPHIS/MATH. DEPT                    | LIBRARY                                      | 2012-2013                                          |
| U. MEMPHIS/MATH. DEPT.                   | LIBRARY CHAIR                                | 2013-2019                                          |
| MEMPHIS                                  | MASTER                                       | 2019-2021-2024                                     |
| MEMPHIS                                  | MATH/STEM                                    | 2019-2021                                          |
| MEMPHIS                                  | FAUDREE AWARD                                | 2019-2020                                          |
| MEMPHIS/MATH. DEPT.                      | STEM COMMITTEE                               | 2020-2023                                          |
| UM                                       | MASTER                                       | 2020-2023-2024                                     |
| UM                                       | T&P                                          | UP TO 2023-2024                                    |

## Appendix A

| Academic Year (pleas | Course # | Course Name | Credit | Percent | Enroll | Labratory Supervised(S)/Instructed | New Preparatio |
|----------------------|----------|-------------|--------|---------|--------|------------------------------------|----------------|
|----------------------|----------|-------------|--------|---------|--------|------------------------------------|----------------|

| <b><u>e indicate year)</u></b> |           |                                   | <b>Hour<br/>s</b> | <b>Taugh<br/>t</b> |    | <b>(I)</b> | <b>n (Y) /(N)</b> |
|--------------------------------|-----------|-----------------------------------|-------------------|--------------------|----|------------|-------------------|
| Fall                           | 1312      | Elementary Calculus               | 3.0               | 100                | 30 |            | N                 |
| 1995                           | 3391      | Differential Equations            | 3.0               | 100                | 20 |            | N                 |
| Spring                         | 1312      | Elementary Calculus               | 3.0               | 100                | 27 |            | N                 |
| 1996                           | 3391      | Differential Equations            | 3.0               | 100                | 18 |            |                   |
| Fall                           | 1312      | Elementary Calculus               | 3.0               | 100                | 25 |            | N                 |
| 1996                           | 7721      | Numerical Analysis                | 3.0               | 100                | 16 |            | N                 |
| Spring                         | 1312      | Elementary Calculus               | 3.0               | 100                | 20 |            | N                 |
| 1997                           | 3391      | Differential Equations            | 3.0               | 100                | 22 |            | N                 |
| Fall                           | 1211      | College Algebra                   | 3.0               | 100                | 25 |            | N                 |
| 1997                           | 1312      | Elementary Calculus               | 3.0               | 100                | 35 |            | N                 |
| Spring                         | 1312      | Elementary Calculus               | 3.0               | 100                | 25 |            | N                 |
| 1998                           | 3391      | Differential Equations            | 3.0               | 100                | 20 |            | N                 |
| Fall                           | 1312      | Elementary Calculus               | 3.0               | 100                | 40 |            | N                 |
| 1998                           | 4721/6721 | Numerical Analysis                | 3.0               | 100                | 15 |            | N                 |
| Spring                         | 1312      | Elementary Calculus               | 3.0               | 100                | 50 |            | N                 |
| 1999                           |           |                                   |                   |                    |    |            |                   |
| Fall                           | 1312      | Elementary Calculus               | 3.0               | 100                | 40 |            | N                 |
| 1999                           | 3391      | Differential Equations            | 3.0               | 100                | 25 |            | N                 |
| Spring                         |           | On professional development leave |                   |                    |    |            |                   |
| 2000                           |           |                                   |                   |                    |    |            |                   |
| Fall                           | 1312      | Elementary Calculus               | 3.0               | 100                | 60 |            | N                 |
| 2000                           | 3391      | Differential Equations            | 3.0               | 100                | 35 |            | N                 |
| Spring                         | 1182      | Foundations of Math II            | 3.0               | 100                | 30 |            | N                 |
| 2001                           | 3391      | Differential Equations            | 3.0               | 100                | 28 |            | N                 |
| Fall                           | 1420      | Foundations of Math. II           | 3.0               | 100                | 50 |            | N                 |
| 2001                           | 3120      | in Fall Diff.Equations            | 3.0               | 100                | 30 |            | N                 |
| 2002                           | 1830      | in Spring Elem.Calculus           | 3                 | 100                | 90 |            | N                 |

|                         |                       |                                                    |     |     |     |    |    |
|-------------------------|-----------------------|----------------------------------------------------|-----|-----|-----|----|----|
| 2002                    | 3120                  | in Spring<br>Diff.Equations                        | 3   | 100 | 30  |    | N  |
| 2002                    | 1830                  | in Fall El.Calc.                                   | 3   | 100 | 70  |    | N  |
| 2002                    | 3242                  | in Fall Intro<br>Linear Algebra                    | 3   | 100 | 28  |    | N  |
| 2003                    | 1830                  | in Spring<br>Elem.Calc.                            | 3   | 100 | 95  |    | N  |
| 2003                    | 3242                  | in Spring<br>Intro.Lin.Alg.                        | 3   | 100 | 25  |    | N  |
| 2003                    | ...                   | in Fall Research<br>Appointment                    | ... | 100 | ... |    | Y  |
| 2004                    | 1830                  | in Spring<br>Elem.Calc.                            | 3   | 100 | 85  |    | N  |
| 2004                    | 3242                  | Spring<br>Intro.Lin.Alg.                           | 3   | 100 | 15  |    | N  |
| 2004                    | 1710                  | Fall College<br>Algebra                            | 3   | 100 | 85  |    | N  |
| 2004                    | 1830                  | Fall Elem.Calc.                                    | 3   | 100 | 40  |    | N  |
| 2005                    | 1420                  | Spring<br>Foundations of<br>Math.II                | 3   | 100 | 80  |    | N  |
| 2005                    | 3120                  | Spring<br>Diff.Equations                           | 3   | 100 | 30  |    | N  |
| 2006                    | 1830                  | Elem.Calc. for<br>Fall                             | 3   | 100 | 90  |    | N  |
| 2006                    | 6721/472<br>1         | Numerical<br>Analysis for Fall                     | 3   | 100 | 15  |    | N  |
| 2006                    | 3120                  | Diff.Equations<br>for Spring                       | 3   | 100 | 40  |    | N  |
| 2006                    | 1710                  | College Alg. for<br>Spring                         | 3   | 100 | 90  |    | N  |
| 2006-2007               | MATH<br>1710          | College Algebra                                    | 3   | 100 | 95  |    | NO |
| 2006-2007               | MATH<br>3120          | Intro.Differentia<br>l Equations                   | 3   | 100 | 20  |    | NO |
| 2006-2007<br>Spring     | MATH<br>1710          | College Algebra                                    | 3   | 100 | 85  | NO | NO |
| 2006-2007<br>Spring     | MATH<br>3242          | Linear Algebra                                     | 3   | 100 | 15  | NO | NO |
| 2007-2008<br>Fall       | MATH<br>1830          | Elementary<br>Calculus                             | 3   | 100 | 85  | NO | NO |
| 2007-2008<br>Fall       | MATH<br>6721/472<br>1 | Numerical<br>Analysis                              | 3   | 100 | 9   | NO | NO |
| 2007-2008<br>SPRING     | N/A                   | ON<br>PROFESSIONA<br>L<br>DEVELOPMEN<br>T ACTIVITY | N/A |     |     |    |    |
| 2008-2009/<br>Fall 2008 | MATH<br>1830-8        | ELEMENTARY<br>CALCULUS                             | 3   | 100 | 60  |    | NO |
| 2008-2009/<br>Fall 2008 | MATH<br>3242-2        | LINEAR<br>ALGEBRA                                  | 3   | 100 | 15  |    | N  |
| 2008-2009/              | MATH                  | COLLEGE                                            | 3   | 100 | 80  |    | NO |



|                                   |                      |                                 |   |     |    |  |    |
|-----------------------------------|----------------------|---------------------------------|---|-----|----|--|----|
| Spring 2009                       | 1710-8               | ALGEBRA                         |   |     |    |  |    |
| 2008-2009/<br>Spring 2009         | MATH<br>1710-10      | COLLEGE<br>ALGEBRA              | 3 | 100 | 75 |  | NO |
| 2009-2010/<br>FALL 09             | MATH<br>1830-8       | ELEMENTARY<br>CALCULUS          | 3 | 100 | 55 |  | NO |
| 2009-2010/<br>FALL 09             | MATH<br>3242-2       | INTROD. TO<br>LINEAR<br>ALGEBRA | 3 | 100 | 35 |  | NO |
| 2010 spring                       | MATH<br>1710-9       | COLLEGE<br>ALGEBRA              | 3 | 100 | 60 |  | N  |
| 2010 spring                       | MATH<br>1710-10      | COLLEGE<br>ALGEBRA              | 3 | 100 | 50 |  | N  |
| 2010--<br>SUMMER                  | MATH<br>1710-<br>205 | COLLEGE<br>ALGEBRA              | 3 | 100 | 45 |  | N  |
| 2010-FALL                         | MATH<br>1830-7       | ELEMENTARY<br>CALCULUS          | 3 | 100 | 90 |  | N  |
| 2010-FALL                         | MATH<br>1830-8       | ELEMENTARY<br>CALCULUS          | 3 | 100 | 50 |  | N  |
| SPRING<br>2011                    | MATH<br>1830-007     | ELEMENTARY<br>CALCULUS          | 3 | 100 | 59 |  | N  |
| SPRING<br>2011                    | MATH<br>1830-008     | ELEMENTARY<br>CALCULUS          | 3 | 100 | 52 |  | N  |
| SUMMER<br>2011                    | MATH<br>1830-105     | ELEMENTARY<br>CALCULUS          | 3 | 100 | 12 |  | N  |
| FALL 2011                         | MATH<br>1830-<br>OO7 | ELEMENTARY<br>CALCULUS          | 3 | 100 | 95 |  | N  |
| FALL 2011                         | MATH<br>1830-008     | ELEMENTARY<br>CALCULUS          | 3 | 100 | 40 |  | N  |
| SPRING<br>2012                    | MATH<br>1710-9       | COLLEGE<br>ALGEBRA              | 3 | 100 | 70 |  | NO |
| SPRING<br>2012                    | MATH<br>1830-10      | ELEMENTARY<br>CALCULUS          | 3 | 100 | 65 |  | NO |
| SUMMER<br>2012-<br>SESSION<br>ONE | MATH<br>1830-102     | ELEMENTARY<br>CALCULUS          | 3 | 100 | 30 |  | NO |
| FALL 2012                         | MATH<br>1830-6       | ELEM. CALC.                     | 3 | 100 | 50 |  | NO |
| FALL 2012                         | MATH<br>1830-7       | ELEM. CALC.                     | 3 | 100 | 90 |  | NO |
| SPRING-20<br>13                   | MATH<br>1830-009     | ELEMENTARY<br>CALCULUS          | 3 | 100 | 60 |  | no |
| SPRING-20<br>13                   | MATH<br>1830-10      | ELEMENTARY<br>CALCULUS          | 3 | 100 | 60 |  | no |
| PRE-<br>SUMMER<br>2013            | MATH<br>1830-1       | ELEMENTARY<br>CALCULUS          | 3 | 100 | 15 |  | NO |
| FALL 2013                         | MATH<br>1710-4       | COLLEGE<br>ALGEBRA              | 3 | 100 | 70 |  | NO |
| FALL 2013                         | MATH<br>1710-6       | COLLEGE<br>ALGEBRA              | 3 | 100 | 70 |  | NO |
| SPRING                            | MATH                 | ELEMENTARY                      | 3 | 100 | 50 |  | NO |

|                       |                  |                        |     |     |    |  |    |
|-----------------------|------------------|------------------------|-----|-----|----|--|----|
| 2014                  | 1830-006         | CALCULUS               |     |     |    |  |    |
| SPRING<br>2014        | MATH<br>1830-007 | ELEMENTARY<br>CALCULUS | 3   | 100 | 45 |  | NO |
| SUMMER<br>2014        | MATH<br>1830-102 | ELEMENTARY<br>CALCULUS | 3   | 100 | 15 |  | NO |
| FALL 2014             | MATH<br>1710-004 | COLLEGE<br>ALGEBRA     | 3   | 100 | 82 |  | NO |
| FALL 2014             | MATH<br>1710-006 | COLLEGE<br>ALGEBRA     | 3   | 100 | 21 |  | NO |
| 2014-2015<br>SPRING   | MATH<br>1830-006 | ELEMENTARY<br>CALCULUS | 3   | 100 | 76 |  | NO |
| 2014-2015<br>SPRING   | MATH<br>1830-007 | ELEMENTARY<br>CALCULUS | 3   | 100 | 36 |  | NO |
| 2014-2015<br>SUMMER I | MATH<br>1830-101 | ELEMENTARY<br>CALCULUS | 3   | 100 | 27 |  | NO |
| 2015-2016<br>FALL     | MATH<br>1830-007 | ELEMENTARY<br>CALCULUS | 3   | 100 | 85 |  | NO |
| 2015-2016<br>FALL     | MATH<br>1830-003 | ELEMENTARY<br>CALCULUS | 3   | 100 | 45 |  | NO |
| 2015-2016<br>SPRING   | MATH<br>1830-006 | ELEMENTARY<br>CALCULUS | 3   | 100 | 80 |  | NO |
| 2015-2016<br>SPRING   | MATH<br>1830-007 | ELEMENTARY<br>CALCULUS | 3   | 100 | 40 |  | NO |
| 2016-2017<br>SPRING   | MATH<br>1830-006 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 90 |  | NO |
| 2016-2017<br>SPRING   | MATH<br>1830-007 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 45 |  | NO |
| 2017-2018<br>FALL     | MATH<br>1830-003 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 95 |  | NO |
| 2017-2018<br>FALL     | MATH<br>1830-007 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 45 |  | NO |
| 2017-2018<br>SPRING   | MATH<br>1830-006 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 80 |  | NO |
| 2017-2018<br>SPRING   | MATH<br>1830-007 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 45 |  | NO |
| 2018-2019<br>FALL     | MATH<br>1830-007 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 85 |  | NO |
| 2018-2019<br>FALL     | MATH<br>1830-003 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 45 |  | NO |
| 2018-2019<br>SPRING   | MATH<br>1830-006 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 75 |  | NO |
| 2018-2019<br>SPRING   | MATH<br>1830-007 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 45 |  | NO |
| 2019-2020<br>FALL     | MATH<br>1830-007 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 75 |  | NO |
| 2019-2020<br>FALL     | MATH<br>1830-003 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 41 |  | NO |
| 2020-2021<br>SPRING   | MATH<br>1830-005 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 45 |  | NO |
| 2020-2021<br>SPRING   | MATH<br>1830-006 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 35 |  | NO |
| 2021-2022<br>FALL     | MATH<br>1830-004 | ELEMENTARY<br>CALCULUS | 3.0 | 100 | 25 |  | NO |
| 2021-2022             | MATH             | ELEMENTARY             | 3.0 | 100 | 25 |  | NO |

|                                                                                                             |                  |                           |      |      |    |    |     |
|-------------------------------------------------------------------------------------------------------------|------------------|---------------------------|------|------|----|----|-----|
| FALL                                                                                                        | 1830-005         | CALCULUS                  |      |      |    |    |     |
| 2021-2022<br>SPRING                                                                                         | MATH<br>1830-004 | ELEMENTARY<br>CALCULUS    | 3.0  | 100  | 25 |    | NO  |
| 2021-2022<br>SPRING                                                                                         | MATH<br>1830-005 | ELEMENTARY<br>CALCULUS    | 3.0  | 100  | 25 |    | NO  |
| SPRING<br>2022                                                                                              | MATH<br>1830-005 | ELEMENTARY<br>CALCULUS    | 3.0  | 100% | 45 |    | NO  |
| SPRING<br>2022                                                                                              | MATH<br>1830-006 | ELEMENTARY<br>CALCULUS    | 3.0  | 100% | 25 |    | NO  |
| FALL 2022                                                                                                   | MATH<br>1830-002 | ELEMENTARY<br>CALCULUS    | 3.0  | 100% | 42 |    | NO  |
| FALL 2022                                                                                                   | MATH<br>1830-004 | ELEMENTARY<br>CALCULUS    | 3.0  | 100% | 25 |    | NO  |
| 2023<br>SPRING                                                                                              | MATH<br>1830-005 | ELEMENTARY<br>CALCULUS    | 3:00 | 100  | 40 | NO | NO  |
| 2023<br>SPRING                                                                                              | MATH<br>1830-006 | ELEMENTARY<br>CALCULUS    | 3:00 | 100  | 25 | NO | NO  |
| 2023 FALL                                                                                                   | MATH<br>1830-007 | ELEMENTARY<br>CALCULUS    | 3:00 | 100  | 27 | NO | NO  |
| 2023 FALL<br><br><br><br><br><br><b>SPRING<br/>2024,<br/>TOTALLY<br/>THE<br/>SAME AS<br/>FALL<br/>2023!</b> | MATH<br>2120-001 | DIFFERENTIAL<br>EQUATIONS | 3:00 | 100  | 30 | NO | YES |

## Appendix B

|                                                     |
|-----------------------------------------------------|
| <b>Additional Information on Advising/Mentoring</b> |
|                                                     |

## Appendix C

|                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ORGANIZED AMAT 2015, ANKARA, TURKEY, MAY 28-31, 2015.                                                                                                                                                 |
|                                                                                                                                                                                                       |
| ORGANIZED AMAT 2012, ANKARA, TURKEY, MAY 17-19, 2012.                                                                                                                                                 |
|                                                                                                                                                                                                       |
| <b><u>CREATIVE ACTIVITIES</u> (productions, recitals, performances, compositions, exhibits, creative work)</b>                                                                                        |
| I have done Research and given Lectures 1986-2021 at The University of Memphis. Also the rest of the listed people below as they were invited by myself, we did research here and they gave lectures. |
|                                                                                                                                                                                                       |
| 1. J. Kemperman [Rutgers University]                                                                                                                                                                  |
|                                                                                                                                                                                                       |
| 2. G. Dassios [University of Tennessee / Patras University, Greece]                                                                                                                                   |
|                                                                                                                                                                                                       |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. R. Zalik [Auburn University]                                                                                                                                                                                                       |
| 4. O. Shisha [Ohio State University / University of Rhode Island]                                                                                                                                                                     |
| 5. ST Rachev [U.C. at Santa Barbara]                                                                                                                                                                                                  |
| 6. GE. Cheney [University of Texas at Austin]                                                                                                                                                                                         |
| 7. HH. Gonska [European Business School, Germany & University of Duisburg]                                                                                                                                                            |
| 8. T. Erdelyi [Ohio State Univ.]                                                                                                                                                                                                      |
| 9. C. Chui [Texas A & M University]                                                                                                                                                                                                   |
| 10. AK. Varma [University of Florida]                                                                                                                                                                                                 |
| 11. Z. Nashed [University of Delaware]                                                                                                                                                                                                |
| 12. XM. Yu [Southwest Missouri State University]                                                                                                                                                                                      |
| 13. M.Ganzburg [Courant Institute]                                                                                                                                                                                                    |
| 14. D.Kolzow [Erlangen University, Germany]                                                                                                                                                                                           |
| 15. Y. Argyros (Cameron Univ., Oklahoma)                                                                                                                                                                                              |
| 16. S. Gal (University of Oradea, Romania), Fall 2000 visiting University of Memphis                                                                                                                                                  |
| 17. G.Walter (U.Wisconsin,Milwaukee),Spring 2002                                                                                                                                                                                      |
| I was the organizer of the 1991 Southeastern Approximation Theorists annual meeting at the University of Memphis: 6th SEA meeting,that is the organizer of 6th S.E. Approximation Theory International Conference, March 14-16, 1991. |
| I was the organizer with S.T.Rachev of the 1 <sup>st</sup> International conference on “Approximation,Probability and related fields”,May 20-22,1993,Santa Barbara,CA(UCSB).                                                          |
| Initiator / Local Organizer of #919 AMS Conference at the University of Memphis, March 21-22, 1997 and the organizer of a special session on “Approximation in Mathematics”.                                                          |
| Organiser of Special session “Computational Methods in Analysis”,Nov.9-10,02,Univ.Central Florida,Orlando, #982 AMS Sectional Meeting.                                                                                                |
| ORGANIZER AMAT 2008,U.MEMPHIS, 10- (11-13)-2008.                                                                                                                                                                                      |
| ORGANIZER SPECIAL SESSION "COMPUTATIONAL ANALYSIS" IN REGIONAL MEETING OF AMS, UNIV. MEMPHIS, OCT. 17-18, 2015.                                                                                                                       |
| Sept. 29-Oct. 2, 2016, visit to Madison, Wisconsin: U. Wisconsin, Epic software company, collaboration with R. Mezei.                                                                                                                 |
|                                                                                                                                                                                                                                       |

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|--------------------------------------------------------------------------------------------------------------------------------|
| <b>SERVICE: UNIVERSITY</b>                                                                                                     |
| <b>COMMITTEE/ACTIVITY</b>                                                                                                      |
| <b>Department of</b>                                                                                                           |
| <b>Mathematical Sciences</b>                                                                                                   |
| Colloquium Committee and course coordinator for Math 1213. I am also a member of the Graduate Faculty.CURRENT (GOOD TILL 2026) |
| Member of Travel, Mid-South Colloquium and TMTA committees 1991-1992.                                                          |
| Member of the U of Memphis Senate 1991-1992.                                                                                   |
| Coordinator for Math 1213 Fall 1992.                                                                                           |
| Member of the travel and salary committees Fall 1992.                                                                          |
| Member of the travel and salary committees 1993-94.                                                                            |
| Chairman of “Mid-South Colloquium” and “Colloquium” Committees, also a member of the hiring committee 1994-95.                 |
| Member of Colloquium and Travel Committees 1995-96.                                                                            |
| Member of Curriculum and Travel Committee 1996-97.                                                                             |
| Chairman Library Committee 1997-2000.                                                                                          |
| Tenure & Promotion Committee at the College of Arts and Sciences 1997-2003.                                                    |
| Member Graduate Committee 2000-2001.                                                                                           |
| Member of Library Committee 2001-2005.                                                                                         |
| Member of Tenure & Promotion Committee in Dept.Math.Sci.2003-2006.                                                             |
| Library Committee 2005-2006 AND 2012-2013.                                                                                     |
| Curriculum Graduate Committee 2005-2006.                                                                                       |
| GRADUATE/ T &P COMMITTEES, 2008-2011.                                                                                          |
| T &P COMMITTEE 2012-2013-2014-2016-2024.                                                                                       |
| CHAIR LIBRARY COMMITTEE 2013-2014-2016-2018-2019. STEM/MASTER'S COMMITTEES 2020-24.                                            |
| <b>OTHER Society/Organization/Journal</b>                                                                                      |
| <b>COMMITTEE/EDITORIAL BOARD/OFFICE</b>                                                                                        |

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|--------------------------------------------------------------------------------------------------------------|
| Journal of Computational Analysis and Applications(ISI APPROVED) Editor In-Chief 1998- 2024                  |
| Journal of Concrete and Applicable Mathematics(NEW) Editor In-Chief 2002- 2024                               |
| Journal of Applied Functional Analysis Editor In-Chief 2004- 2024                                            |
| Journal of Computational and Applied Mathematics Associate Editor 1992-98.                                   |
| Southwest Journal of Pure and Applied Mathematics(discontinued) Assoc.Ed. 1995-2000.                         |
| Journal of Communications in Applied Analysis,Assoc.Ed. 1998-                                                |
| International Journal of Applied Mathematics Assoc.Ed. 1999-                                                 |
| International Journal of Differential Equations and Applications Assoc.Ed. 1999-                             |
| Computational Mathematics and Applications Books                                                             |
| Springer-(Kluwer-Plenum)Consultant Editor 1999-                                                              |
| Applied Mathematical Sciences Books                                                                          |
| Birkhouser-Boston Consultant Editor 1999-                                                                    |
| Cubo Assoc.Ed. 1999-                                                                                         |
| Journal of Advances in Non-linear Variational Inequalities" Assoc.Ed. 1999,2004-                             |
| Journal of Inequalities in Pure and Applied Mathematics (electronic) Assoc.Ed. 1999- 2010.                   |
| Anal. of University in Oradea,fascicola mathematica Assoc.Ed. 2001-                                          |
| Applied Mathematics Books                                                                                    |
| CRC Press Advisor 1999-                                                                                      |
| "Concrete and Applicable Mathematics" Book Series ,World Scientific Publishing Company,Editor In Chief 2000- |
| Books in Mathematics Advisor to NOVA Publ.Co. 2002-                                                          |
| Mathematical Inequalities and Applications,Assoc.Ed.,2000-2011.                                              |
| Archives of Inequalities and Applications,Assoc.Ed.,2003-2004.                                               |
| International J.of Pure and Applied Math.(IJPAM),Assoc.Ed.,2003-                                             |
| International J. of Computational and Numerical Analysis with Applications,Assoc.Ed.,2003-                   |
| Honorary Editor Australian Journal of Mathematical Analysis and Applications,Assoc.Ed.,2004-                 |
| Internat.J.Appl.Math.Sci.,Assoc.Ed.,2004-                                                                    |

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|-----------------------------------------------------------------------------------------------|
| Panamerican Math.J.,Assoc.Ed.,2004-                                                           |
| J.of Inequalities and Appl.,Assoc.Ed.,2004-2009.                                              |
| Global Journal of Pure and Applied Mathematics,Assoc.Ed.,2005-                                |
| Internat.J.of Theoretical and Applied Mathematics,Assoc.Ed.,2005-                             |
| The global J.of Appl.Math. & Math.Sci.,Assoc.Ed.,2005-                                        |
| BOOK REVIEWER                                                                                 |
| External Examiner for Faculty Promotions in King Fahd University,Saudi Arabia,2000-2001,2005. |
| Member of The University of Memphis Committee for the Alumni                                  |
| Distinguished Research Award, 2001,2002.                                                      |
| Honorary President( and President from 2007) of Society for study and promotion of Ancient    |
| Greek Mathematics, 2000- 2016.                                                                |
| Pacific-Asian J.of Math. , Assoc.Ed. 2005-                                                    |
| Internat.J.of Math. & Analysis, Assoc.Ed. 2005-                                               |
| Internat.Review of Fuzzy Mathematics, Assoc.Ed. 2005-                                         |
| Advances in Nonlinear Analysis and Appl., Assoc.Ed. 2005-                                     |
| Internat.J.of Optimization Theory and Applications, Assoc.Ed. 2006-                           |
| EUDOXUS PRESS,LLC,PRESIDENT, 2005-                                                            |
| J.Math.Anal.& Approx.Th., Assoc.Ed.,2005-                                                     |
| Advances in Theoretical & Applied Math.,Assoc. Ed.,2005-                                      |
| Mathematics Applied in Science and Technology, Assoc.Ed.,2005-                                |
| Advances in Fuzzy Mathematics, Assoc.Ed.,2006-                                                |
| Internat.J.of Math.Sciences,Assoc.Ed., 2005-                                                  |
| Antarctica J. of Math., Assoc.Ed., 2005-                                                      |
| Journal of Contemporary Mathematics,2006-                                                     |
| Journal of Nonlinear Functional Analysis. & Appl. 2006-                                       |
| Oriental Journal of Pure and Appl.Math.2006-                                                  |

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| Internat.J.of Computing & Math.Appl. 2006-                                                |
| Fuzzy Algebra & Rough Algebra,2006-                                                       |
| Fuzzy Algebra and its Appl. 2006-                                                         |
| J.of Wavelet Theory and Appl. 2006-                                                       |
| Internat.J.of Nonlinear Operators theory & Appls. 2006-                                   |
| Internat.J.of Computational Mathematics and Numerical Simulation 2006-                    |
| RdE-Journal of Mathematical Science,2007-                                                 |
| J.NONLINEAR ANALYSIS AND ITS APPLICATIONS,ELECTRONIC,2008-                                |
| INTERNAT. J. ON OPEN PROBLEMS IN COMP. SCI. AND MATH., 2008-                              |
| HONORARY EDITOR OF " THE JOURNAL OF NONLINEAR SCIENCE AND ITS APPLICATIONS, 2008-         |
| EXTERNAL EXAMINER PH.D DEFENSE, 2009, BAHAUDDIN ZAKARIA. U. MULTAN, PAKISTAN              |
| ISST J. OF APPLIED MATH. 2009-                                                            |
| INTERNAT. ELECTRONIC J. OF PURE AND APPLIED MATH. 2010-                                   |
| CURRENT DEVELOPMENT IN THEORY AND APPLICATIONS OF WAVELETS, 2010-                         |
| J. MATH. ANALYSIS, 2010-                                                                  |
| ASIAN AFRICAN J. OF MATH. AND MATH. SCI. 2010-                                            |
| ASSOC. EDITOR: "J. MATHEMATICAL AND COMPUTATIONAL SCIENCE", 2011-.                        |
| ASSOC. EDITOR: ADVANCED J OF PURE AND APPLIED MATH, AN INTERNATIONAL JOURNAL: 2011-.      |
| ASSOC. EDITOR: J. OF NONLINEAR EVOLUTION EQUATIONS AND APPLICATIONS" (ELECTRONIC), 2011-. |
| GLOBAL ADVISORY MEMBER OF IFNA, 2010-.                                                    |
| INTERN. J. OF POLYNOMIALS AND APPLS., 2011-                                               |
| J. APPLIED MATH. AND STAT., 2012-                                                         |
| PROGRESS IN APPLIED MATH., 2012-                                                          |



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|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STUDIES IN MATHEMATICAL SCIENCES, 2012-                                                                                                                          |
| NONLINEAR FUNCTIONAL ANALYSIS AND APPLICATIONS, 2012-                                                                                                            |
| INTERNAT. J. OF AGRI: SCIENCE & EDUCATION, 2013-                                                                                                                 |
| J. OF APPLIED & COMPUTATIONAL MATHEMATICS, 2013-                                                                                                                 |
| JSM MATHEMATICS AND STATISTICS, 2014-//// AUSTIN MATHEMATICS, 2014- ///PROGRESS IN FRACTIONAL DIFFERENTIATION AND APPLICATIONS, 2014-                            |
| BANGMOD INTERNATIONAL JOURNAL OF MATHEMATICAL AND COMPUTATIONAL SCIENCE, 2015-.                                                                                  |
| OPEN J. OF MATH. SCIENCE, HONORARY EDITOR IN-CHIEF, PAKISTAN, 2017-. INTERNATIONAL JOURNAL OF ANALYSIS AND APPLICATIONS, 2017-. DEMONSTRATIO MATHEMATICA, 2017-. |
| ASSOC. EDITOR IN "J. APPLIED MATH. AND INFORMATICS", "J. OF APPLIED AND PURE MATH.", KOREA, FROM 7-7-20.                                                         |
| ASSOC. EDITOR IN "MATHEMATICS/MDPI", 3-3-21---12-12-23,                                                                                                          |
| ASSOC. EDITOR IN "J. INTELLIGENT LEARNING SYSTEMS AND APPLICATIONS", 10-26-21----                                                                                |
| ASSOC. EDITOR IN "ARCHIVES OF APPLIED MATHEMATICS" 5-4-2023.....                                                                                                 |
| ASSOC. EDITOR IN “MALAYA J MATHEMATIK”, 2-12-24...                                                                                                               |
| ASSOC. EDITOR IN “BULLETIN OF TRANSILVANIA UNIV. OF BRASOV, SECTION III: MATHEMATICS AND COMPUTER SCIENCE”, 8-12-24....                                          |
| ASSOC. ED., J. INEQUAL. & MATH. ANAL., FROM 12-12-24....                                                                                                         |
| ASSOC. ED., APPROX. TH. & SPEC. FUNCTIONS, FROM 4-10-25....                                                                                                      |

## Appendix D

|                                          |
|------------------------------------------|
| <b>Additional Information on Support</b> |
|                                          |

## Appendix E

|                                           |
|-------------------------------------------|
| <b>Additional Information on Outreach</b> |
| Appendix A                                |
| <b>Preparation</b>                        |
| Elementary Calculus,Calculus I,II,III     |
| Differential Equations,PDE                |

|                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Numerical Analysis,Probability                                                                                                                    |
| College Algebra                                                                                                                                   |
| Foundations of Math I and II ,Trigonometry                                                                                                        |
| Introduction to Linear Algebra,Complex Analysis,Real Analysis.                                                                                    |
| PUBLICATIONS ADDENDUM                                                                                                                             |
| I have been the referee of many papers for various Journals and books about Approx.Th.,inequalities,etc,in Mathematical Reviews and Zentralblatt. |
| <b>Appendix C</b>                                                                                                                                 |
| ARTICLES IN PREPARATION                                                                                                                           |
| 1. "Korovkin Theorems for Random Functions."                                                                                                      |
| 2. "Wavelets and Probability."                                                                                                                    |
| 3. "Approximate Solutions of P.D.E."s - Probabilistic Approach."                                                                                  |
| 4. "Approximation on Neural Networks."                                                                                                            |
| 5. "On Opial Inequalities."                                                                                                                       |
| 6. "Asymptotic Expansions Related to Stationary Processes."                                                                                       |
| 7. On Prokhorov radius                                                                                                                            |
| 8. On Global Smoothness                                                                                                                           |
| 9. Several papers in Fuzzy Approx. Th.                                                                                                            |
| 10. On Riemann Hypothesis                                                                                                                         |
| 11. "On inequalities", several papers.                                                                                                            |
| 12. "On Fuzzy Approximation Theory",several papers.                                                                                               |
| 13. "On Fractional Analysis",several papers.                                                                                                      |
| 14. "On optimal portfolio management".                                                                                                            |
| 15. "Complex Approximation Theory",several papers.                                                                                                |
| 16.Approximation of Stochastic Processes,several papers.                                                                                          |

17. Set valued functions Approximation, several papers.
18. Classical inequalities, several papers.
19. Complex Fuzzy Approximation, several papers.
20. "On Statistical Approximation of Operators"
21. "On Poincare and Sobolev Fractional Inequalities"
22. SEVERAL PAPERS ON APPROXIMATION BY SINGULAR INTEGRALS AND SUMS.
23. SEVERAL PAPERS ON FRACTIONAL FUZZINESS, Q-CALCULUS, DISCRETE FRACTIONAL CALCULUS, TIMES SCALES CALCULUS AND INEQUALITIES, ETC.
24. several papers in stochastic inequalities and approximation.
25. 10 papers in preparation in approximation theory by neural networks in fuzzy, fuzzy random and fractional environments.
26. 12 PAPERS IN APPROXIMATION BY SUBLINEAR AND MAX-PRODUCT OPERATORS. 27. SEVERAL PAPERS USING NON-ADDITIVE INTEGRALS FOR APPROXIMATIONS, FRACTIONAL CALCULUS, ANALYTIC INEQUALITIES. SEVERAL PAPERS ON IYENGAR INEQUALITIES.

Much of my work is joint research. My collaborators include:

1. S.T. Rachev (U.C. at Santa Barbara)
2. O. Shisha (University of Rhode Island)
3. H. Gonska (University of Duisburg - Germany)
4. C. Cottin (University of Duisburg - Germany)
5. XM. Yu (Southwest Missouri State University)
6. S. Cambanis (Univ. North Carolina)
7. A. Bendikov, (University of Passau - Germany) 8. M. Ganzburg (Courant Institute)
9. T. Rychlik (Polish Academy of Science)
10. S. Gal (U. Oradea, Romania)
11. J. Pecaric (Croatia)

|                                                                                           |
|-------------------------------------------------------------------------------------------|
| 12. J. Koliha (Melbourne, Australia)                                                      |
| 13. S. Dragomir (Melbourne, Australia)                                                    |
| 14. S. Penev (Sydney, Australia)                                                          |
| 15. V. Papanicolaou (Wichita State University, KS and Athens Technical Institute, Greece) |
| 16. Gisele Ruiz Goldstein (U. Memphis)                                                    |
| 17. Jerome Goldstein (U. Memphis).                                                        |
| 18. Oktay Duman (Ankara, Turkey)                                                          |
| 19. ALI ARAL (ANKARA, TURKEY)                                                             |
| 20. RAZVAN MEZEI                                                                          |
| 21. IULIANA IATAN                                                                         |
| 22. IOANNIS ARGYROS                                                                       |
| 23. Merve Kester, 24. D. KOULOUMPOU, 25. SEDA KARATEKE                                    |
| <b>Computing Knowledge</b>                                                                |
| Programming capability in Fortran IV.                                                     |
| Computer literate                                                                         |
| Heavy Internet User                                                                       |
| <b>Areas of Interest</b>                                                                  |
| Real and Complex Analysis                                                                 |
| Set Theory                                                                                |
| General Topology                                                                          |
| Functional Analysis                                                                       |
| Approximation Theory                                                                      |
| Measure Theory                                                                            |
| Moment Theory                                                                             |
| Probability and Stochastic Processes                                                      |
| Numerical Analysis                                                                        |
| Mathematical Programming                                                                  |

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| Operations Research                                                                                              |
|                                                                                                                  |
| Wavelet and Neural Networks                                                                                      |
|                                                                                                                  |
| Inequalities                                                                                                     |
|                                                                                                                  |
| Fuzziness in Approximation Theory                                                                                |
|                                                                                                                  |
| Fractional Analysis                                                                                              |
|                                                                                                                  |
| Mathematical Economics                                                                                           |
|                                                                                                                  |
| Set valued functions                                                                                             |
| Complex Approximation                                                                                            |
| Complex Fuzziness                                                                                                |
| Statistical Approximation on Operators                                                                           |
| APPROXIMATION OF SINGULAR INTEGRALS,                                                                             |
| Q-CALCULUS, DISCRETE FRACTIONAL CALCULUS, TIME SCALES                                                            |
| ITO-CALCULUS, WIENER CALCULUS                                                                                    |
| FRACTIONAL TIME SCALES.                                                                                          |
| SUBLINEAR OPERATOR,                                                                                              |
| NEURAL NETWORKS                                                                                                  |
|                                                                                                                  |
| NON-ADDITIVE INTEGRALS.                                                                                          |
|                                                                                                                  |
|                                                                                                                  |
|                                                                                                                  |
| Member of :1) Greek Mathematical Society,1972-,                                                                  |
|                                                                                                                  |
| 2) AMS,1981-,                                                                                                    |
|                                                                                                                  |
| 3) SIAM,2003.                                                                                                    |
|                                                                                                                  |
| IN PREPARATION 2 RESEARCH MONOGRAPHS                                                                             |
|                                                                                                                  |
| REZA SAADATI <rezas720@yahoo.com> Aug 12, 2012<br>Professor George A Anastassiou, I published two special issues |
| to G. ANASTASSIOU Dear                                                                                           |

<http://www.tjnsa.com/index.php?volume=5&issue=21>

<http://www.tjnsa.com/index.php?volume=5&issue=22>

which all papers dedicated to George A Anastassiou on the occasion of his sixtieth birthday.